SEQUENCE LISTING

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<110> Wang, Tongtong
      Bangur, Chaitanya S.

<120> COMPOSITIONS AND METHODS FOR THERAPY AND
  DIAGNOSIS OF LUNG CANCER


<130> 210121.478C4

<140> US
<141> 2000-03-06

<160> 789

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      <211> 472
      <212> DNA
      <213> Homo sapien

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<212> DNA
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<212> DNA
<213> Homo sapien

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<213> Homo sapien

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<211> 424
<212> DNA
<213> Homo sapien

<400> 17
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<213> Homo sapien

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<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<211> 461
<212> DNA
<213> Homo sapien

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<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<213> Homo sapien

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atatac 486

<210> 30
<211> 240
<212> DNA
<213> Homo sapien

<400> 30
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gggttctata actgcatccc ccacacatct ttcaccacca ccccatacat accagctctc 180
ctgttgtggg attcaggaca taggaagagt tgctgaaggc acgggtgctt ttgggattcg 240

<210> 31
<211> 233
<212> DNA
<213> Homo sapien

<400> 31
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tcgtcagcaa gttgtggccc actttctttg agagacccct tgtgaggaaa gcctttgaga 180
agaccctcaa ggacctgaag ctgagctatc tggacgtcta tcttattcac tgg 233

<210> 32
<211> 233
<212> DNA
<213> Homo sapien

<400> 32
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ctgtgtgtac tctgtccagt tcctttagaa aaaatggatg cccagaggac tcccaacccct 120
ggcttggggt caagaaacag ccagcaagag ttaggggcct tagggcactg ggctgttgtt 180
ccattgaagc cgactctggc cctggccctt acttgcttct ctagctctct agg 233

<210> 33
<211> 319
<212> DNA
<213> Homo sapien

<400> 33
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catgatggct tcaggattcc aaagagagtg agagtagaag ctgaaagact tcttgagttc 180
ttggcctgga actgggacta ggacagtgtc acttctgcta agttcttttg gtcagagcaa 240
atcacaaggc tttacccaga ttcaagggat gagaaacaga ctacatgtct tgatgagggg 300
aaccacaaag agcttgtgg 319

<210> 34
<211> 340
<212> DNA
<213> Homo sapien

<400> 34
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ggtacaaatg acctcagcgt gacagcaaac aggacagaga agaccaggct cttactcagg 180
aatccaccag ccaggagaat gacaatgttg aacaccggaa ccctgatgat atctgtcaca 240
tttgtaaggt tgatttcaga gtcaggagtg gagacatcgg cagttgactt gggtggagct 300
tgggtcacag ttctggggct ggtatagagt gggcacaagg 340

<210> 35
<211> 170
<212> DNA
<213> Homo sapien

<400> 35
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ggcaggagaa tccacggatg taatgttttc accttttttcc ctgagggtgc tttctgagga 120
accagycctt aagaggtggg gtcttggatt cctgacccag gcgtccggca 170

<210> 36
<211> 475
<212> DNA
<213> Homo sapien

<400> 36
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ttgatctccc acaccaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag caggtgttta aaaattttag aatttcttta acaaaattct 240
aaagagaaaa taaaaaagaa atcacagtat ttacagagat aacagaatgg cttagccatg 300
caaaacaaat aactttggtt tttccccttt tactttggtt taaatgttga ccaagattca 360
atttttttc ctgccaaata aaacttcaat aaaagtttag aggcaaaata acgtattttc 420
ttttttccc ataatatttt atacagcatc gagtctaaga atattttatg cattt 475

<210> 37
<211> 246
<212> DNA
<213> Homo sapien

<400> 37
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ccaggcagcc aggggctagg acctcatgga tcagcagcaa gtccagcagg ttgtagtcag 120
cgaaggagat ctggtctccc acaatgaagg tcttgcctcc ctggttctgg gacagcaggg 180
tctcaaaagg cttcagttgc ccgggcagtg ccttcacata gtcatccttg cccacctcat 240
agttgg 246

<210> 38
<211> 512
<212> DNA
<213> Homo sapien

<400> 38
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ctgtcagttg acgacagcga caaaaccaat gggtccaaag ttgatgtaat ccaagttcgt 180
cctttgtagg aatgaagaat ggcaacgaaa gatggggcct taaattggat gccacttttg 240
gactttcatc ataagaagtg tctggaatac ccgttctatg taatatcaac agaaccttgt 300
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aaacaaattc ttttaattca acgggtgctt tacataatga aaaaaccact tgtggcacac 420
gatgggcatc taacatcatc atcttctaat gtgttggaga ttttcatttc aaatatattt 480
tttaaattac tctattttcc aaaacacgta at 512

<210> 39
<211> 370
<212> DNA
<213> Homo sapien

<400> 39
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atgtactcga ctctgtccta tttagccttc ccatacctga cttctaatca cttttcctgg 120

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tgccctycca tctccctaac ccccccctcac agggatgcct cctcccaagg ctccagaaac     180
tctgaccctc gcactgctgg agggagccca tgaattgctg gtcaatatcg ctcatcctct     240
akactccatc ctgcgtgtgc ttcttcctac aagagctaga gaggcactga ctgataaata     300
cctgtcacct gccccctttcc cagagggtga aactccaccc actcccactg cagaaatgaa     360
tcttaaatgg                                                            370

      <210> 40
      <211> 204
      <212> DNA
      <213> Homo sapien

      <400> 40
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ggagcagagc agaccttgtt tttagtggtt ccatgggata aaatgggatt ggaggagcta     120
gaagaattca gggtctggtc caatctgcca gtcttcctga aatatcgaaa atacaccagg     180
gctgctatat cagagccacc ctgg                                            204

      <210> 41
      <211> 447
      <212> DNA
      <213> Homo sapien

      <400> 41
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tcaagcaagc acttgacaag attccacagg ccatagagat ttcttctgga gaagaatttg     120
tgtttaattt tttgatacca acactgaaca ttcatcaggg aactttcctg aagttcagct     180
caagactacc ctacctgctg tgtttgtgag aagagtagga tcacacacac aggtgcaatc     240
ttgaccacac ttacctgcaa gaggagtaac cagaggacac acttccttcc ttctttggtg     300
tctgaggagt gtgaactgtt ggggtcagtt aagacccaac ataactctat cagaagaaaa     360
ctgttgtttg cctttcaacc ttgttttaca gttctgcagt gtagtggagg acgggcaacg     420
tgcatgtgca ggctcaccac tcccagg                                         447

      <210> 42
      <211> 498
      <212> DNA
      <213> Homo sapien

      <400> 42
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attagattct cattgcactg aactatattt atatgcctaa gtatgtagaa gtaaaattat     120
ataccccaaa aggattttat cttgttgtat atattaaatg ttatttctgc atatagggtc     180
ttttatggag aaactgatga tgataagctt aatactcact tgtttagcag catctgaatg     240
cacaaatgct ttatatatct cttctgcttt acagggcaaa agatcagact ctgttttctt     300
atagtcttca caagccagcc agaactcaat attctcctca ctgaattcag actttaggaa     360
acttccaaag acattttgac cagtttggtt ggcaagaagt ttttccagag attgagacca     420
ttgcattact tcagcagcag aaagtacatc cttggacttg gaagatttca ttccagattc     480
cagatgtggg atcataga                                                   498

      <210> 43
      <211> 312
      <212> DNA
      <213> Homo sapien

      <400> 43
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ttcatgacag tgtctgggct gccaaagaag cagtgcccct gtgatcattt caagggcaat     120
gtgaagaaaa caagacacca aaggcaccac agaaagccaa acaagcattc cagagcctgc     180
cagcaatttc tcaaacaatg tcagctaaga agctttgctc tgcctttgta ggagctctga     240
gcgcccactc ttccaattaa acattctcag ccaagaagac agtgagcaca cctaccagac     300
actcttcttc tc                                                          312

      <210> 44
      <211> 417
      <212> DNA
      <213> Homo sapien

      <400> 44
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ccttctcaag ccatgtctca gagctgagag gcatcccagc aagttttgca gctcacagtt     120
ttttccgtaa attacttatt ctataaaatt ggagtaggcc ataaactttg gagggcccta     180
gaccaatttt ttggattatt tttcgtcttc tatcattccg ctgatcttag atattctctg     240
cattaaatat taaatatcac ttctaggctg aaaaatcccc ctaaaaatat ttctagctca     300
gatttttcct ccaaattctg caatagaaga tcacaatgtg aactctgcat ctccatgtta     360
aagtctaatg gacattcaca cttagcatgt ctcaaagaaa tctcatgtaa accatgg        417

      <210> 45
      <211> 494
      <212> DNA
      <213> Homo sapien

      <400> 45
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tggtgcatgt acacgtgtgt gtgtgtatgc gtgtaggagc tcacacttgt gtacacgttt     120
gtgtgcatgc atgtgtgcag gagcttgcac gtttgtggtg ggtacatgta catatgtgag     180
tgatcctgtg tgcaagcccc catgtggaca tggctatgag tgagcgtgga gccaaaagcc     240
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ggtgtgaatc atgcagcagg cccactgtgc gtgtctgaga cggtctgtgg cagggactgg     360
gtgtgaatca gtgaccgtgt ctctgaccaa catgctgaat tacaaattga taatttatta     420
acctgtgcag caacaaataa gatttttcaa aactcaacaa agtgctcaaa gttgacatta     480
cttgcttcaa agtt                                                        494

      <210> 46
      <211> 516
      <212> DNA
      <213> Homo sapien

      <400> 46
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cttctattgc taattttgtg acctccaaag ctttacttct cggaacctcc tcctttggcc     120
gtcatttgat cattcaactc tttgtcagtg gcaactcccg ctattttggt gtgttggttt     180
gttactacac agtgagcaca aacatggtgg tccaatacag aggctcttcc tgtcaggtgt     240
caaccagaaa gttcatctaa cactgtgata tttgcatcct tcttgaacag ttgttggctg     300
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aagattcatt tgatgaatcg atttttcaaa agagatgatt cttggttctt ccgagcgctc 360
agctctcccg ccgagcttct ttgagacgtc ctcaggtgtc ctttgacgat gcgtcctcca 420
ctttcacaca ctctagcatt ccttcactgg ggtcttcatt gccccacatt gggcagccag 480
gaatgttggg gtgatcagac acaacaccag gtcatg 516

<210> 47
<211> 459
<212> DNA
<213> Homo sapien

<400> 47
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tatagcattg ggcacactcc agcagacgcc cgaattcaaa tcctggaagg atggaagaaa 120
cgcctggaga atatttggga tgagacacca ctgtattttg ctccaagcag cctctttgac 180
ctaaacttcc aggcaggatt cttaatgaaa aaagaggtac aggatgagga gaaaaacaag 240
aaatttggcc tttctgtggg ccatcacttg ggcaagtcca tcccaactga caaccagatc 300
aaagctagaa aatgagattc cttagcctgg atttccttct aacatgttat caaatctggg 360
tatctttcca ggcttccctg acttgcttta gtttttaaga tttgtgtttt tctttttcca 420
caaggaataa atgagaggga atcgaksaaa aaaaaaaaa 459

<210> 48
<211> 430
<212> DNA
<213> Homo sapien

<400> 48
cctatattca gccacagcct ctgggagtgg tgctgataat cggagcttgg aattaccccct 60
tcgttctcac cattcagcca ctgataggag ccatcgctgc aggaaatgct gtgattataa 120
agccttctga actgagtgaa aatacagcca agatcttggc aaagcttctc cctcagtatt 180
tagaccagga tctctatatt gttattaatg gtggtgttga ggaaaccacg gagctcctga 240
agcagcgatt tgaccacatt ttctatacgg gaaacactgc ggttggcaaa attgtcatgg 300
aagctgctgc caagcatctg acccctgtga ctcttgaact gggagggaaa agtccatgtt 360
atattgataa agattgtgac ctggacattg tttgcagacg cataacctgg ggaaaataca 420
tgaattgtgg 430

<210> 49
<211> 288
<212> DNA
<213> Homo sapien

<400> 49
ccatccgaag caagattkca gatggcagtg tgaagagaga agacatattc tacacttcaa 60
agctttggwg caattcccat cgaccagagt tggtccgacc agccttggaa aggtcactga 120
aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagc 180
caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240
tctgtgccac gtgggaggcc rtggagaagt gtaaagatgc aggattgg 288

<210> 50
<211> 411
<212> DNA
<213> Homo sapien

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      <400> 50
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agcgtaagtg taagcaaact ctcctatgaa cactcgctca aaccagcctt tcagaatggc     180
agggactcca aaccactgca gggggaactg gaatatcaca aggtctgcgg cttccagctt     240
cttttgttca gccacaatat ctgggctcag atggccttct ttataagcca gaacagactc     300
ggcaggatac tgaaagttcg cagggtcctt cagtttacct gtgatgtcct ttctggaaat     360
gatgggattg aagttcatgg catagaggtc cgactccacc acctcccatc c              411

      <210> 51
      <211> 503
      <212> DNA
      <213> Homo sapien

      <400> 51
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tcagttgtaa ataatgaatt aggggccaaa atgcaaaacg aaaaatgaag cagctacatg     180
tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatttt     240
atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtttt     300
taatatccca gaagtgagac aatttgaaca gtgtattcta gaaaacaata cactaactga     360
acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta     420
actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga     480
ggtaaacact gatgcaatta aga                                             503

      <210> 52
      <211> 503
      <212> DNA
      <213> Homo sapien

      <400> 52
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ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta     120
tcagttgtaa ataatgaatt aggggccaaa atgcaaaacg aaaaatgaag cagctacatg     180
tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatttt     240
atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtttt     300
taatatccca gaagtgagac aatttgaaca gtgtattcta gaaaacaata cactaactga     360
acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta     420
actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga     480
ggtaaacact gatgcaatta aga                                             503

      <210> 53
      <211> 531
      <212> DNA
      <213> Homo sapien

      <400> 53
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gaatagtaca tgggaaattc tctttaggcc aggtctagta ttacagkgtg gkgctcaagg     120
ccgcccatca gaacagtgat actctcccaa cagatttcat ccacccccgtc tccactaact    180
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gaagacaaaa cagtgccaca aataagcagt agatgacccct gtgacaagac ggcattgcag 420
aacaaagact gacgtttaaa ggggagtcat gcagagtaac atgggaacac aagcctgaca 480
acctggtcag cttccactta ctctagctcc tttgaactct caacactaaa a 531

<210> 54
<211> 450
<212> DNA
<213> Homo sapien

<400> 54
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ccatcttagc tgtggacaaa ggggggtcag 450

<210> 55
<211> 648
<212> DNA
<213> Homo sapien

<400> 55
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ggtcctggcc aagagctaca atgagcagcg catcagacag aacgtgcagg tgtttgaatt 360
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gacccttgat atttttgctg gcccccctaa ttatccattt tctgatgaat attaacatgg 480
agggcattgc atgaggtctg ccagaaggcc ctgcgtgtgg atggtgacac agaggatggc 540
tctatgctgg tgactggaca catcgcctct ggttaaatct ctcctgcttg gygayttcag 600
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<210> 56
<211> 536
<212> DNA
<213> Homo sapien

<400> 56
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aaactataga actcttcatt gtcagcaaag caaagagtca ctgcatcaat gaaagttcaa 120
gaacctcctg tacttaaaca cgattcgcaa cgttctgtta ttttttttgt atgtttagaa 180
tgctgaaatg tttttgaagt taaataaaca gtattacatt tttaaaactc ttctctatta 240
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tggcctccct ataaatgtgg tagcttcttt tattactcag tggacctgcc cgggcggccg 360
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gcttggccgt aatcatggtc atagctgttt cctgtgtgaa attgttatcc gctcacaatt 480
ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagt 536

<210> 57 <211> 391
<212> DNA
<213> Homo sapien

<400> 57
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aatttgaaga ccagatcatg ggtggtctgc atgtgaatga acaggaatga gccggacagc 180
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gaaaatttat tgtttattgg catgtgaccc ttgactgatg gcttcattag cattytgttt 360
ttctttttgg atccttaata gaaaactcaa t 391

<210> 58
<211> 455
<212> DNA
<213> Homo sapien

<400> 58
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gccctagcca acgccgcatg agagggagtg tgccgagggc ttctgagaag gtttctctca 120
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ttgccctggg agttctcaaa ttgctgcagc agcctccacc cagcctgagg atgacatcaa 240
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ccgagagctt accattcctc agacttcttc acatggtgct aacagatttg ttcctaaaag 360
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acatgtttac aataatgagg agcaggttgg actgg 455

<210> 59
<211> 398
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(398)
<223> n = A,T,C or G

<400> 59
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ggtcagaaag tgcagaaggt tatggtgcag cccatcaacc tcatcttcag atacttacaa 120
aatagatcgc ggattcaggt gtggctctat gagcaagtga atatgcggat agaaggctgt 180
atcattggtt ttgatgagta tatgaacctt gtattagatg atgcagaaga gattcattct 240
aaaacaaagt caagaaaaca actngntcgg atcatgctaa aaggagataa tattactctg 300
ctacaaagtg tctccaacta gaaatgatca atgaagtgag aaattgttga gaaggataca 360
gtttgttttt agatgtcctt tgtccaatgt gaacattt 398

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<210> 60
<211> 532
<212> DNA
<213> Homo sapien

<400> 60
gacttctgag acctggggca cccgggcctt tgcggcagct actggcaggg cctggccacc      60
tcataggact cagttccctt ctgaacactc gggggacatg ggcctctaac tgcccactct     120
gatatgcctg ggtgagccta ggagggaagg ctctgatttg gatttctcca gtcaaagctc     180
acagaaaaaa acctggcact ttgattttca tgggatggtc ctaacagggt cagtcacctc     240
cgagcagttt gggaacccag tttcttgtcc tgggccctca ggtcagcctg gctgaattag     300
gacccttcct tggcacaggg gtgagaaaga gcttggggaa cgcttggcat tatggagggc     360
tggaaggggc tcaaccccga tttggagaga agtttgggat ggagtgggcg agagattgag     420
agagcgagca ggaaaagagg tcttggagcc tgggactgat ggtggataag gcctggaaag     480
aasatgacsa ggaggaggag agagggaagt gggtggatga ggagcaggct ga             532

<210> 61
<211> 466
<212> DNA
<213> Homo sapien

<400> 61
gcgacggcga cgtctctttt gactaaaaga cagtgtccag tgctccagcc taggagtcta      60
cggggaccgc ctcccgcgcc gccaccatgc ccaacttctc tggcaactgg aaaatcatcc     120
gatcggaaaa cttcgaggaa ttgctcaaag tgctgggggt gaatgtgatg ctgaggaaga     180
ttgctgtggc tgcagcgtcc aagccagcag tggagatcaa acaggaggga gacactttct     240
acatcaaaac ctccaccacc gtgcgcacca cagagattaa cttcaaggtt ggggaggagt     300
ttgaggagca gactgtggat gggaggccct gtaagagcct ggtgaaatgg gagagtgaga     360
ataaaatggt ctgtgagcag aagctcctga agggagaggg ccccaagacc tcgtggacca     420
gagaactgac caacgatggg gaactgatcc tgaccatgac ggcgga                     466

<210> 62
<211> 548
<212> DNA
<213> Homo sapien

<400> 62
ttttgaattt acaccaagaa cttctcaata aaagaaaatc atgaatgctc cacaatttca      60
acataccaca agagaagtta atttcttaac attgtgttct atgattattt gtaagacctt     120
caccaagttc tgatatcttt taaagacata gttcaaaatt gcttttgaaa atctgtattc     180
ttgaaaatat ccttgttgtg tattaggttt ttaaatacca gctaaaggat tacctcactg     240
agtcatcagt accctcctat tcagctcccc aagatgatgt gtttttgctt accctaagag     300
aggtttctt cttattttta gataattcaa gtgcttagat aaattatgtt ttctttaagt      360
gtttatggta aactctttta aagaaaattt aatatgttat agctgaatct ttttggtaac     420
tttaaatctt tatcatagac tctgtacata tgttcaaatt agctgcttgc ctgatgtgtg     480
tatcatcggt gggatgacag aacaaacata tttatgatca tgaataatgt gctttgtaaa     540
aagatttc                                                               548

<210> 63
<211> 547
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<212> DNA
<213> Homo sapien

<400> 63
tttccaaagc ggagacttcc gacttcctta caggatgagg ctgggcattg cctgggacag 60
cctatgtaag gccatgtgcc ccttgcccta acaactcact gcagtgctct tcatagacac 120
atcttgcagc atttttctta aggctatgct tcagtttttc tttgtaagcc atcacaagcc 180
atagtggtag gtttgccctt tggtacagaa ggtgagttaa agctggtgga aaaggcttat 240
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aatttttta cagtatgttt tattaccttt tgatatctgt tgttgcaatg ttagtgatgt 420
tttaaaatgt gatcgaaaat ataatgcttc taagaaggaa cagtagtgga atgaatgtct 480
aaaagatctt tatgtgttta tggtctgcag aaggattttt gtgatgaaag gggatttttt 540
gaaaaat 547

<210> 64
<211> 528
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(528)
<223> n = A,T,C or G

<400> 64
cacctmctcc csccwggcgc ttwctcsgac gccttgccca scgggccgcc cgaccccctg 60
srccatggac cccgctcgcc csctggggmt gtygatkctg ctgcttttcc tgrckgaggc 120
tgcactgggc gatgctgatc argagccaac aggaaataac rcggagatct gkctcctgcc 180
cctagactac kgaccctgcc kggccctact tytccgytac tactacgaca ggyacacgca 240
gagctgccgc cwgttcctgk rckggggctg crasggcaac rccaacwatt yctacacckg 300
kgaggmttrc gackatgctw gstggargat agaaaaagtt cccaaasttt gccggctgma 360
agtgaatgag gacnaccagg gtgaggggta cacagataag tatttcttta atctaakkwc 420
catgacatgw gaaaaattct ttnncggtgg gngtcaccgg accggattga gaacangttt 480
gcagatgang ctactgggat gggctcctgc rcacnaaaga aantatca 528

<210> 65
<211> 547
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

<400> 65
kgaatgaasa acgaacgctg gaagtagaaa tagagcctgg ggtgagagac ggcatggagt 60
acccctttat tggagaaggt gagcctcacg tggatgggga gcctggagat ttacggttcc 120
gaatcaaagt tgtcaagcac ccaatatttg aaaggagagg agatgatttg tacacaaatg 180
tgacagtctc attagttgag tcactggttg gctttgagat ggatattact cacttggatg 240

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gtcacaaggt acatatttcc cgggataaga tcaccaggcc aggagcgaag ctatggaaga     300
aaggggaagg gctccccaac tttgacaaca acaatatcaa gggctctttg ataatcactt     360
ttgatgtgga ttttccaaaa gaacagttaa cagaggaagc gagagaangt atcaaacagc     420
tactgaaaca agggtcagtg cagaaggtat acaatggact gcaaggatat tgagagtgaa     480
taaaattgga ctttgtttaa aataaagtga ataagcgata tttattatct gcaaggtttt     540
ttttgtg                                                               547

        <210> 66
        <211> 535
        <212> DNA
        <213> Homo sapien

        <400> 66
ggggaggtct acgcttctag agcttgagcc agcggggcga ccctgcagtg gcaggactcg      60
gcaccgcgcc ctccaccgcc ggttggtggc ctgcgtgaca gtttcctccc gtcgacatcg     120
aaaggaagcc ggacgtgggc gggcagagag cttcatcgca gtaggaatgg cagccccatc     180
tatgaaggaa agacaggtct gctggggggc ccgggatgag tactggaagt gtttagatga     240
gaacttagag gatgcttctc aatgcaagaa gttaagaagc tctttcgaat caagttgtcc     300
ccaacagtgg ataaaatatt ttgataaaag aagagactac ttaaaattca aagaaaaatt     360
tgaagcagga caatttgagc cttcagaaac aactgcaaaa tcctaggctg ttcataaaga     420
ttgaaagtat tctttctgga cattgaaaaa gctccactga ctatggaaca gtaatagttt     480
gaatcatagt gaacatcaat acttgttccc tatatacgac acttgataat taaga          535

        <210> 67
        <211> 527
        <212> DNA
        <213> Homo sapien

        <400> 67
atttctgcca cttaattcaa acagtcatat gcaggtcgct taatttattt gtgcttttgt      60
ttcatcttct acaaggccct cttagctcta aaacttgaca gtggaataag gaaatgtttt     120
tccaaatctg cattgccggt gagatcctca acatcagcat gttgagatgg acctcaaccc     180
cacctctaac cctgaaacac actactcgat attatcttag gtatgtttta gggtttagtt     240
tgtaaaataa taatttattt ttgaaggaaa tataaaatat taaagagtaa taatagctat     300
cattttttaa gattcaatct aaaacaatgg actctttttt tttccatttg tgatgtagat     360
aagcaagaca atttgatca tgagtggtga aaagaggatc aaacttgact attcttgcaa     420
tggcagtcca gcaacaagcc tttcatttac attaaattat aacttttcat tcattcctaa     480
accaaactta aaattctgct ttcctttgag tagaaggtat ttaactt                   527

        <210> 68
        <211> 431
        <212> DNA
        <213> Homo sapien

        <400> 68
gggaaacttc atgggtttcc tcatctgtca tgtcgatgat tatatatgga tacatttaca      60
aaaataaaaa gcgggaattt tcccttcgct tgaatattat ccctgtatat tgcatgaatg     120
agagatttcc catatttcca tcagagtaat aaatatactt gctttaattc ttaagcataa     180
gtaaacatga tataaaaata tatgctgaat tacttgtgaa gaatgcattt aaagctattt     240
taaatgtgtt tttatttgta agacattact tattaagaaa ttggttatta tgcttactgt     300
tctaatctgg tggtaaaggt attcttaaga atttgcaggt actacagatt ttcaaaactg     360
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aatgagagaa aattgtataa ccatcctgct gwtcctttag tgcaatacaa taaaactctg     420
aaattaaaac t                                                          431

      <210> 69
      <211> 399
      <212> DNA
      <213> Homo sapien

      <400> 69
gacacggcgg acacacacaa acacagaacc acacagccag tcccaggagc ccagtaatgg      60
agagccccaa aaagaagaac cagcagctga aagtcgggat cctacacctg ggcagcagac     120
agaagaagat caggatacag ctgagatccc agtgcgcgac atggaaggtg atctgcaaga     180
gctgcatcag tcaaacaccg ggataaatc tggatttggg ttccggcgtc aaggtgaaga      240
taatacctaa agaggaacac tgtaaaatgc cagaagcagg tgaagagcaa ccacaagttt     300
aaatgaagac aagctgaaac aacgcaagct ggttttatat tagatatttg acttaaacta     360
tctcaataaa gttttgcagc tttcaccaar aaaaaaaaa                            399

      <210> 70
      <211> 479
      <212> DNA
      <213> Homo sapien

      <400> 70
cgcggcggag ctgtgagccg gcgactcggg tccctgaggt ctggattctt tctccgctac      60
tgagacacgg cggacacaca caaacacaga accacacagc cagtcccagg agcccagtaa     120
tggagagccc caaaaagaag aaccagcagc tgaaagtcgg gatcctacac ctgggcagca     180
gacagaagaa gatcaggata cagctgagat cccaggtgct gggaagggaa atgcgcgaca     240
tggaaggtga tctgcaagag ctgcatcagt caaacaccgg ggataaatct ggatttgggt     300
tccggcgtca aggtgaagat aatacctaaa gaggaacact gtaaaatgcc agaagcaggt     360
gaagagcaac cacaagttta aatgaagaca agctgaaaca acgcaagctg gttttatatt     420
aggatatttg acttaaacta tctcaataaa gttttgcagc tttcaccaaa aaaaaaaaa      479

      <210> 71
      <211> 437
      <212> DNA
      <213> Homo sapien

      <400> 71
ctcagcggct gccaacagat catgagccat cagctcctct ggggccagct ataggacaac      60
agaactctca ccaaaggacc agacacagtg rgcaccatgg gacagtgtcg gtcagccaac     120
gcagaggatg ctcaggaatt cagtgatgtg gagagggcca ttgagaccct catcaagaac     180
tttcaccagt actccgtgga gggtgggaag gagacgctga ccccttctga gctacgggac     240
ctggtcaccc agcagctgcc ccatctcatg ccgagcaact gtggcctgga agagaaaatt     300
gccaacctgg gcagctgcaa tgactctaaa ctggagttca ggagtttctg ggagctgatt     360
ggagaagcgg ccaagagtgt gaagctggag aggcctgtcc gggggcactg agaactccct     420
ctggaattct tgggggg                                                    437

      <210> 72
      <211> 561
      <212> DNA
      <213> Homo sapien
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     <400> 72
ggatggtata ctgtaaattc agcatatgga gataccatta tcataccttg ccgacttgac      60
gtacctcaga atctcatgtt tggcaaatgg aaatatgaaa agcccgatgg ctccccagta     120
tttattgcct tcagatcctc tacaaagaaa agtgtgcagt acgacgatgt accagaatac     180
aaagacagat tgaacctctc agaaaactac actttgtcta tcagtaatgc aaggatcagt     240
gatgaaaaga gatttgtgtg catgctagta actgaggaca acgtgtttga ggcacctaca     300
atagtcaagg tgttcaagca accatctaaa cctgaaattg taagcaaagc actgtttctc     360
gaaacagagc agctaaaaaa gttgggtgac tgcatttcag aagacagtta tccagatggc     420
aatatcacat ggtacaggaa tggaaaagtg ctacatcccc ttgaaggagc ggtggtcata     480
atttttaaaa aggaaatgga cccagtgact cagctctata ccatgacttc caccctggag     540
tacaagacaa ccaaggctga c                                               561

     <210> 73
     <211> 916
     <212> DNA
     <213> Homo sapien

     <400> 73
ggagaaaata aggtggagtc ctacttgttt aaaaaatatg tatctaagaa tgttctaggg      60
cactctggga acctataaag gcaggtattt cgggccctcc tcttcaggaa tcttcctgaa     120
gacatggccc agtcgaaggc ccaggatggc ttttgctgcg gccccgtggg gtaggaggga     180
cagagagaca gggagagtca gcctccacat tcagaggcat cacaagtaat ggcacaattc     240
ttcggatgac tgcagaaaat agtgttttgt agttcaacaa ctcaagacga agcttatttc     300
tgaggataag ctctttaaag gcaaagcttt attttcatct ctcatctttt gtcctcctta     360
gcacaatgta aaaaagaata gtaatatcag aacaggaagg aggaatggct tgctggggag     420
cccatccagg acactgggag cacatagaga ttcacccatg tttgttgaac ttagagtcat     480
tctcatgctt ttctttataa ttcacacata tatgcagaga agatatgttc ttgttaacat     540
tgtatacaac atagccccaa atatagtaag atctatacta gataatccta gatgaaatgt     600
tagagatgct atatgataca actgtggcca tgactgagga aaggagctca cgcccagaga     660
ctgggctgct ctcccggagg ccaaacccaa gaaggtctgg caaagtcagg ctcagggaga     720
ctctgccctg ctgcagacct cggtgtggac acacgctgca tagagctctc cttgaaaaca     780
gaggggtctc aagacattct gcctacctat tagcttttct ttattttttt aacttttttgg    840
ggggaaaagt atttttgaga agtttgtctt gcaatgtatt tataaatagt aaataaagtt     900
tttaccatta aaaaaa                                                     916

     <210> 74
     <211> 547
     <212> DNA
     <213> Homo sapien

     <400> 74
agtggcatta acttttagaa tttgggctgg tgagattaat ttttttaat atcccagcta      60
gagatatggc ctttaactga cctaaagagg tgtgttgtga tttaattttt tcccgttcct     120
ttttcttcag taaacccaac aatagtctaa ccttaaaaat tgagttgatg tccttatagg     180
tcactacccc taaataaacc tgaagcaggt gttttctctt ggacatacta aaaaatacct     240
aaaaggaagc ttagatgggc tgtgacacaa aaaattcaat tactgtcatc taatgccagc     300
tgttaaaagt gtggccactg agcatttgat tttataggaa aaaatagtat ttttgagaat     360
aacatagctg tgctattgca catctgttgg aggacatccc agatttgctt atactcagtg     420
cctgtgatat tgagtttaag gatttgaggc aggggtaatt attaaacata ttgcttctat     480
tcttggaaaa atagaagkgt aaaatgttaa taatacaaat gtcactgtga cctcctccac     540
```

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tgagagg                                                                 547

          <210> 75
          <211> 793
          <212> DNA
          <213> Homo sapien

          <400> 75
tgaggaagtt gcaagccaac aaaaaagttc aaggatctag aagacgatta agggaaggtc        60
gttctcagtg aaaatccaaa aaccagaaaa aaatgtttat acaaccctaa gtcaataacc       120
tgaccttaga aaattgtgag agccaagttg acttcaggaa ctgaaacatc agcacaaaga       180
agcaatcatc aaataattct gaacacaaat ttaatatttt tttttctgaa tgagaaacat       240
gagggaaatt gtggagttag cctcctgtgg agttagcctc ctgtggtaaa ggaattgaag       300
aaaatataac accttacacc ctttttcatc ttgacattaa aagttctggc taactttgga       360
atccattaga gaaaaatcct tgtcaccaga ttcattacaa ttcaaatcga agagttgtga       420
actgttatcc cattgaaaag accgagcctt gtatgtatgt tatggataca taaaatgcac       480
gcaagccatt atctctccat gggaagctaa gttataaaaa taggtgcttg gtgtacaaaa       540
ctttttatat caaaaggctt tgcacatttc tatatgagtg ggtttactgg taaattatgt       600
tattttttac aactaatttt gtactctcag aatgtttgtc atatgcttct tgcaatgcat       660
atttttttaat ctcaaacgtt tcaataaaac catttttcag atataaagag aattacttca       720
rattgagtaa ttcagaaaaa ctcaagattt aagttaaaaa gtggtttgga cttgggaaca       780
ggactttata cct                                                          793

          <210> 76
          <211> 461
          <212> DNA
          <213> Homo sapien

          <400> 76
accttgcact attcccctca gtccatctat cgaggtcttt gcaggaagca tactgggaat        60
tgaaacgaga gcctaaatga catctaagaa aggcagtgtt caataccagg tattaggtga       120
ggatgggatt ctaaggacat cagtgggagg cagggagcca ccttcagacc tcagcatgga       180
agcttccaag atccagagga agaggcaaca gcactgagag tcataggtag aagaatcatc       240
acagccctgc taaccaggca gctgatgccc ctctcccctg gctccctgtg tccaaatcct       300
acaggggcat ctgttggctg aactcaacct gaagccaaag agaagatgag tggagagagg       360
caacatttat agagctcagg tttctagggc tggagaggga tctggaggga cacacaggag       420
acacctggca taaccaaaaa atgattaaaa aaaaaaaaaa a                           461

          <210> 77
          <211> 642      <212> DNA
          <213> Homo sapien

          <400> 77
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gctgtgagac tacctattgt agatattgca ccctatgaca ttggtggtcc tgatcaagaa       120
tttggtgtgg acgttggccc tgtttgcttt ttataaacca aactctatct gaaatcccaa       180
caaaaaaaat ttaactccat atgtgttcct cttgttctaa tcttgtcaac cagtgcaagt       240
gaccgacaaa attccagtta tttatttcca aaatgtttgg aaacagtata atttgacaaa       300
gaaaaatgat acttctcttt ttttgctgtt ccaccaaata caattcaaat gctttttgtt       360
ttattttttt accaattcca atttcaaaat gtctcaatgg tgctataata aataaacttc       420
aacactcttt atgataacaa aaaaaarawa wattctttga atcctagccc atctgcagag       480
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caatgactgt gctcaccagt aaaagataac ctttctttct gaaatagtca aatacgaaat 540
tagaaaagcc ctccctattt taactacctc aactggtcag aaacacagat tgtattctat 600
gagtcccaga agatgaaaaa aattttatac gttgataaaa ct 642

<210> 78
<211> 519
<212> DNA
<213> Homo sapien

<400> 78
gcagaagaag aagcggacct tccgcaagtt cacctaccgc ggcgtggacc tcgaccagct 60
gctggacatg tcctacgagc agctgatgca gctgtacagt gcgcgccagc ggcggcggct 120
gaaccggggc ctgcggcgga agcagcactc cctgctgaag cgcctgcgca aggccaagaa 180
ggaggcgccg cccatggaga agccggaagt ggtgaagacg cacctgcggg acatgatcat 240
cctacccgag atggtgggca gcatggtggg cgtctacaac ggcaagacct tcaaccaggt 300
ggagatcaag cccgagatga tcggccacta cctgggcgag ttctccatca cctacaagcc 360
cgtaaagcat ggccggcccg gcatcggggc cacccactcc tcccgcttca tccctctcaa 420
gtaatggctc agctaataaa aggcgcacat gactccaaaa aaaaaaaaaa aagggcggcc 480
gccaccgcgg gggagctcca cttttgttcc ctttaatga 519

<210> 79
<211> 526
<212> DNA
<213> Homo sapien

<400> 79
gtctggaggc ggtgtcctct ccgccctgtc gggtcctgga tgagtacgag ttatggtcac 60
ggtcacagcc tgatctctta tgtgttcata gccattcgct ctcccatcag aactgtttgt 120
cctgaatgtg ttcctctagt tctagaaaat gaccactaat ttaaaaaact cggttgtgag 180
gtttgcccag aggcacttgt tccagaattt cccctcctgc ttcagccatg tccttgtcac 240
ttggcattct aagctaaagc tttagcttcc caattcgtga tgtgctaggc caagattcgg 300
gagctgttgc cagcctcgtc aaatatggaa gagaaacaac ctgcggtcaa aagggagtga 360
tttgttaagt ggtgcgcgtc tatctcataa ctagatgtac caaccaggga agggccaagg 420
atggaaaggg gtaacttttg tgcttccaaa gtagctaagc agaagtgggg gagcagttta 480
gccagatgat ctttgattag gcaaacattg agttttaaag aggctg 526

<210> 80
<211> 281
<212> DNA
<213> Homo sapien

<400> 80
gttatattag tgggtagtgt aacattttat ccaggttggg gtgaggggag atggccacag 60
tagcaagtgg tgacactaaa taccattttg aaggctgatg tgtatataca tcattactgt 120
ccgtagcaat gaaggataca gtactgtgtt gtgggtgagt gttgctattg cccagcatta 180
atatttgggt gtgtatgttt gaggctatga aacacgcagg agtgtttttg tgctattaat 240
tttaagagaa agcagctttt tcttaaaatt cactgttgag a 281

<210> 81
<211> 405
<212> DNA

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      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(405)
      <223> n = A,T,C or G

      <400> 81
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tagcaaaccg agcgatcatg tcgcacaaac aaatttacta ttcggacaaa tacgacsacg     120
aggagtttga statcgacat gtcatgctgc ccaaggacat akccaasctg gtccctaaaa     180
cccatctgat gtctgaatct gaatggagga atcttggcng ttcagmagan tcagggatgg     240
gtccattata tgatccatga nccagaacct cdcatcttgc tgttccggcg scccacttac     300
cccaanaaac caamgaaatg aaccttggct actacttttc aatcctcaaa kcttttcaca     360
vhtgaccttc cttcctaaca ttctttmtga taaacattta ttaag                     405

      <210> 82
      <211> 547
      <212> DNA
      <213> Homo sapien

      <400> 82
tagtttttaa gaagaaattt tttttggcct atgaaattgt taaacctgga acatgacatt      60
gttaatcata taataatgat tcttaaatgc tgtatggttt attatttaaa tgggtaaagc     120
catttacata atatagaaag atatgcatat atctagaagg tatgtggcat ttatttggat     180
aaaattctca attcagagaa atcatctgat gtttctatag tcactttgcc agctcaaaag     240
aaaacaatac cctatgtagt tgtggaagtt tatgctaata ttgtgtaact gatattaaac     300
ctaaatgttc tgcctaccct gttggtataa agatattttg agcagactgt aaacaagaaa     360
aaaaaaatca tgcattctta gcaaaattgc ctagtatgtt aatttgctca aaatacaatg     420
tttgatttta tgcactttgt cgctattaac atcctttttt tcatgtagat ttcaataatt     480
gagtaatttt agaagcatta ttttaggaat atatagtkgt cacagtaaat atcttgtttt     540
ttctatg                                                               547

      <210> 83
      <211> 529
      <212> DNA
      <213> Homo sapien

      <400> 83
ctattctaag agatgctctt agtgatcttg cattacactt tctgaataaa atgaagatca      60
tggtgattaa ggatattgaa agagaagaca ttgaattcat ttgtaagaca attggaacca     120
agccagttgc tcatattgac caatttactg ctgacatgct gggttctgct gagttagctg     180
aggaggtcaa tttaaatggt tctggcaaac tgctcaagat tacaggctgt gccagccctg     240
gaaaaacagt tacaattgtt gttcgtggtt ctaacaaact ggtgattgaa gaagctgagc     300
gctccattca tgatgcccta tgtgttattc gttgtttagt gaagaagagg gctcttattg     360
caggaggtgg tgctccagaa atagagttgg ccctacgatt aactgaatat tcacgaacac     420
tgagtggtat ggaatcctac tgcgttcgtg cttttgcaga tgctatggag gtcattccat     480
ctacactagc tgaaaatgcc cggcctgaat cccatttcta cagtaacag                 529

      <210> 84
      <211> 527
```

<212> DNA
<213> Homo sapien

<400> 84

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cccatcacca gaatcccttc atgggaggga tggatgcctg ttgaaactca ctgacctatt      60
ggactgacgc tggggtggta tcttcatcag agctattgta agtcatccaa aaggcttctg     120
acgaaagaac aatttttaaa aagtccctct tttcaatcaa gccaatgtcc tattttattt     180
ctaaaagttt tgggactcgt gctgttatca agtacaatga aaatggcttt ataaatagct     240
gttttgacat tgtgatagaa ggcttgaata cggaggaaag atgtcgctgg agctagtcct     300
gagttccgac tgtccctgtg gtgggaatcc agtctgggaa agcaggactg ttttagcaaa     360
cgtgtactcg ttctataaaa atggaatctg ttctgcaggt taccgtccct ccccgcccaa     420
gcatcccctc tgtcctgtct ctctgctgct gggacccagg gctttttcag ctgcagaacc     480
cactggactt ccaggaatca aggaaaaagt ggaaatgtcc aactgtg                  527
```

<210> 85
<211> 401
<212> DNA
<213> Homo sapien

<400> 85

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cagtgtggtg gaattcccaa gatagaaatg aaaaactctt ttatagagtg ctgacatctg      60
acattgagaa attcatgcct attgtttata ctcccactgt gggtctggct tgccaacaat     120
atagtttggt gtttcggaag ccaagaggtc tctttattac tatccacgat cgagggcata     180
ttgcttcagt tctcaatgca tggccagaag atgtcatcaa ggccattgtg gtgactgatg     240
gagagcgtat tcttggcttg ggagaccttg gctgtaatgg aatgggcatc cctgtgggta     300
aattggctct atatacagct tgcggaggga tgaatcctca agaatgtctg cctgtcattc     360
tggatgtggg aaccgaaaat gaggagttac ttaaagatcc a                         401
```

<210> 86
<211> 547
<212> DNA
<213> Homo sapien

<400> 86

```
gaagcctctt gtgtttgtgt gcagagaagt atatgatcca ccatgctaat gacacttgcc      60
ttttttttcca ccattaaggc tttaagaaca tgtggaataa gtttttagc tgctaatgac     120
aaaacaaatc ctgtaactac ccagccagca agtatatagc acagaacact gtgttacttt     180
acaagggctt atgtgactgg aataaggtgg tcccacttga ctgttccaaa gagcagcttc     240
tcagatcttc agtgttcact ggtaaatttc taacagtgta tttgtgtaaa gtttgtcatt     300
tcatactcca tacactacag ttgctgtcac tgatccctgt tttgctggct tttaagctac     360
ttggtcaaaa atcctgcttc cttaaaacat agagaattaa tgagcatctc aagctttttc     420
ttttcctttt taatgatgcc tgcactatca agagtattct agtgttctct ctttgtttgg     480
catataatca tgcaccaaac tttttatttc tttaaggtgg gagtatattt ttatttccta     540
aatgcca                                                               547
```

<210> 87
<211> 530
<212> DNA
<213> Homo sapien

<400> 87

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atggattcga aataccagkg tgtgaagctg aatgatggtc acttcatgcc tgtcctggga      60
tttggcacct atgcgcctgc agaggttcct aaaagtaaag ctctagaggc cgtcaaattg     120
gcaatagaag ccgggttcca ccatattgat tctgcacatg tttacaataa tgaggagcag     180
gttggactgg ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc     240
tacacttcaa agctttggag caattcccat cgaccagagt tggtccgacc agccttggaa     300
aggtcactga aaaatcttca attggactat gttgacctct atcttattca ttttccagtg     360
tctgtaaagc caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac     420
acagtggatc tctgtgccac rtgggaggcc atggagaagt gtaaagatgc aggattggcc     480
aagtccatcg ggtgtccaa cttcaaccac aggctgctgg agatgatcct                530

      <210> 88
      <211> 529
      <212> DNA
      <213> Homo sapien

      <400> 88
acctgagcta agaaggataa ttgtcttttg gtaactaggt ctacaggttt acatttttct      60
gtgttacact caaggataaa ggcaaaatca attttgtaat ttgtttagaa gccagagttt     120
atcttttcta taagtttaca gcctttttct tatatataca gttattgcca cctttgtgaa     180
catggcaagg gactttttta caatttttat tttattttct agtaccagcc taggaattcg     240
gttagtactc atttgtattc actgtcactt tttctcatgt tctaattata aatgaccaaa     300
atcaagattg ctcaaaaggg taaatgatag ccacagtatt gctccctaaa atatgcataa     360
agtagaaatt cactgccttc ccctcctgtc catgaccttg ggcacaggga agttctggtg     420
tcatagatat cccgttttgt gaggtagagc tgtgcattaa acttgcacat gactggaacg     480
aagtatgagt gcaactcaaa tgtgttgaag atactgcagt catttttgt                529

      <210> 89
      <211> 547
      <212> DNA
      <213> Homo sapien

      <400> 89
gtttatatat atagcgaata aatctagttg tataaatttt taaatgccgt cagtagaaag      60
cacacaaggt tatgattttt ttaattactg gcttctgatt tctttcactt ctgatccttt     120
tcctttttct cagatgtagc tgagtcttga tcattttaag acaacgatgg gtagaatttt     180
gagattaatg ttaattttcc ctttttgtta atttcagtcc cctctcacta tgcttttgtc     240
cagaaggatc aagaattcta ccatcccttg ggtctttgtg tataaacaat gttaaataaa     300
ggtagactca gtctttaaga tattagacag tttttttagt ccatgggatt gtaaatataa     360
acattaactt tcctataaga atattttggc tttgtaatct atagcctcaa attggtattt     420
attatggatt cactagacaa acagctgttt ccttattgtc tttttctttt agtgtttctg     480
atttgctatc agtagctgtt tttaaagcca tccaaggaaa ataattattt acagtttttg     540
aagtcac                                                              547

      <210> 90
      <211> 528
      <212> DNA
      <213> Homo sapien

      <400> 90
gagcagcaga agctgtacag caagatgatc gtggggaacc acaaggacag gagccgctcc      60
tgagcctgcc tccagctggc tggggccacc gtgcggggtg ccaacgggct cagagctgga     120
```

```
gttgccgccg ccgcccccac tgctgtgtcc tttccagact ccagggctcc ccgggctgct      180
ctggatccca ggactccggc tttcgccgag ccgcagcggg atccctgtgc acccggcgca      240
gcctaccctt ggtggtctaa acggatgctg ctgggtgttg cgacccagga cgagatgcct      300
tgtttctttt acaataagtt gttggaggaa tgccattaaa gtgaactccc cacctttgca      360
cgctgtgcgg gctgagtggt tggggagatg tggccatggt cttgtgctag agatggcggt      420
acaagagtct gttatgcaag cccgtgtgcc agggatgtgc tgggggcggc cacccgctct      480
ccaggaaagg cacagctgag gcactgtggc tggcttcggc ctcaacat                   528

       <210> 91
       <211> 547
       <212> DNA
       <213> Homo sapien

       <400> 91
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gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt      120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag      180
ctgactctaa tcaaatgtga tgattggaat taraccmttt ggscyttgra ccttymtwrg      240
raaaawgrmc cmacctttyt taacmtgrac cwccytmatc tctagaagct gggatggact      300
tactatyctk gttwatattt taaatackga aaggtgctat gcttctgtta ttattccaag      360
actggagata ggcagggcta aaaaggtatt attattttc ctttaatgat ggtgctaaaa      420
ttcttcctat aaaattcctt aaaaataaag atggtttaat cactaccatt gtgaaaacat      480
aactgttaga cttcccgttt ctgaaagaaa gagcatcgtt ccaatgcttg ttcactgttc      540
ctctgtc                                                                547

       <210> 92
       <211> 527
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(527)
       <223> n = A,T,C or G

       <400> 92
gctggctagt aggggaacat gtagtagcca agcccatgca ttgcagtgca cagagcaaca       60
ttggggtaac aggatgggta cctgtcacgg cctgtgcaaa cataacatgt gtcaccacac      120
tgaaggtatg gtggaacaag tggcctcacc aaggtcggac cccaatggac tttttgcctc      180
ttgggagctt atgggtctat gaggacacag tagcctttcc tatcagcaaa ctggagtgga      240
tgttgtatct gggggtggcc ttatgtacct gctactgttc tccccacatt gcccagatgc      300
ctgtataact gggaggcact gkgctctcag tttttgcgaa tgtgatgagc cccctggtgt      360
ttctaccctt ttggcaatga ctatccctgg agncatgtgt caaaactgta aagcacaatt      420
tactgctctt tgcggagcac accgctcatg ctctgaatta cacctgaktg tccctcctcc      480
wgktawtgaa tgaggttgat cnvatcagaa adgtggkgtt ggcmata                    527

       <210> 93
       <211> 531
       <212> DNA
       <213> Homo sapien
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<400> 93
ggtattcata cagccttcct aaaggcaatg ctttccacag gatttaagat accccagaaa 60
ggcatcctga taggcatcca gcaatcattc cggccaagat tccttggtgt ggctgaacaa 120
ttacacaatg aaggtttcaa gctgtttgcc acggaagcca catcagactg gctcaacgcc 180
aacaatgtcc ctgccacccc agtggcatgg ccgtctcaag aaggacagaa tcccagcctc 240
tcttccatca gaaaattgat tagagatggc agcattgacc tagtgattaa ccttcccaac 300
aacaacacta aatttgtcca tgataattat gtgattcgga ggacagctgt tgatagtgga 360
atccctctcc tcactaattt tcaggtgacc aaactttttg ctgaagctgt gcagaaatct 420
cgcaaggtgg actccaagag tcttttccac tacaggcagt acagtgctgg aaaagcagca 480
tagagatgca gacaccccag ccccattatt aaatcaacct gagccacatg t 531

<210> 94
<211> 547
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

<400> 94
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aagaatgttt ccattggaat tgttggtaaa gacttggagt ttacaatcta tgatgatgat 120
gatgtgtctc cattcctgga aggtcttgaa gaaagaccac agagaaaggc acagcctgct 180
caacctgctg atgaacctgc agaaaaggct gatgaaccaa tggaacatta agtgataagc 240
cagtctatat atgtattatc aaatatgtaa gaatacaggc accacatact gatgacaata 300
atctatactt tgaaccaaaa gttgcagagt ggtggaatgc tatgttttag gaatcagtcc 360
agatgtgagt tttttccaag caacctcact gaaacctata taatggaata cattttttctt 420
tgaaagggtc tgtataatca ttttctagaa agtatgggta tctatactaa tgtttttata 480
tgaagaacat aggtgtcttt gtggttttaa agacaactgt gaaataaaat tgtttcaccg 540
cctggtn 547

<210> 95
<211> 1265
<212> DNA
<213> Homo sapien

<400> 95
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ctaactggga aagacccagg gagactggga tgggctcatg attctacata cagaactcat 120
ccaagaaagg aggaaaagct gatttttgtg aacgtcgcta cttgtgcctg aactaactct 180
caggcacatt agtcagaaaa tactacctat ggttactccc ccaggttcct aaaagtaaag 240
ctttagaggc caccaaattg gcaattgaag ctggcttccg ccatattgat tctgctcatt 300
tatacaataa tgaggagcag gttggactgg ccatccgaag caagattgca gatggcagtg 360
tgaagagaga agacatattc tacacttcaa agctttggtg caattcccat cgaccagagt 420
tggtccgacc agccttggaa aggtcactga aaaatcttca attggattat gttgacctct 480
accttattca ttttccagtg tctgtaaagc caggtgagga agtgatccca aaagatgaaa 540
atggaaaaat actatttgac acagtggatc tctgtgccac gtgggaggcc gtggagaagt 600
gtaaagatgc aggattggcc aagtccatcg ggtgtccaa cttcaaccgc aggcagctgg 660
agatgatcct caacaagcca gggctcaagt acaagcctgt ctgcaaccag gtggaatgtc 720

atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaagac attgttctgg 780
ttgcctatag tgctctggga tcccaccgag aagaaccatg ggtggacccg aactccccgg 840
tgctcttgga ggacccagtc ctttgtgcct tggcaaaaaa gcacaagcga accccagccc 900
tgattgccct gcgctaccag ctrcagcgtg gggttgtggt cctggccaag agctacaatg 960
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aagccataga tggcctaaac agaaatgtgc gatatttgac ccttgatatt tttgctggcc 1080
cccctaatta tccattttct gatgaatatt aacatggagg gcattgcatg aggtctgcca 1140
gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctggtga ctggacacat 1200
cgcctctggt taaatctctc ctgcttggtg atttcagcaa gctacagcaa agcccattgg 1260
ccaga 1265

<210> 96
<211> 568
<212> DNA
<213> Homo sapien

<400> 96
ccagtgtggt ggaattcggt ttaattacaa aatttgatca cgatcatatt gtagtctctc 60
aaagtgctct agaaattgtc agtggtttac atgaagtggc catgggtgtc tggagcaccc 120
tgaaactgta tcaaagttgt acatatttcc aaacattttt aaaatgaaaa ggcactctcg 180
tgttctcctc actctgtgca ctttgctgtt ggtgtgacaa ggcatttaaa gatgtttctg 240
gcatttctt tttatttgta aggtggtggt aactatggtt attggctaga aatcctgagt 300
tttcaactgt atatatctat agtttgtaaa aagaacaaaa caaccgagac aaacccttga 360
tgctccttgc tcggcgttga ggctgtgggg aagatgcctt ttgggagagg ctgtagctca 420
gggcgtgcac tgtgaggctg gacctgttga ctctgcaggg ggcatccatt tagcttcagg 480
ttgtcttgtt tctgtatata gtgacatagc attctgctgc catcttagct gtggacaaag 540
gggggtcagc tggcatgaga atatttt 568

<210> 97
<211> 546
<212> DNA
<213> Homo sapien

<400> 97
ttgtaccgta tctgtaggca tcctgtaaat aattccaagg ggaaaactaa acgaggacgt 60
gggttgtatc ctgccaggtt gagtggggct cacacgctag ggtgagatgt cagaaagcgc 120
ttgtatttta aacaaccaaa aagaattgta agggtggctt gctgccaggc ttgcactgcc 180
gttcctgggg gtgtgcatct tcgggaaagg tggtggcggg gcgtccacta ggtttcctgt 240
cccctgctgc tccttccgta agaaaatgaa atattctatg cctaatactc acacgcaaca 300
tttcttgtac tttgtaagtc gtttgcgaga atgcagacca cctcactaaa ctgtaaacgg 360
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ttccacctga agacttgtgt taaagttcta cagcgcgcac tgttaactga acgtcttttt 480
cttcagccta tacgcggatc cttgttttga gctctcagaa tcactcagac aacattttgt 540
aactgc 546

<210> 98
<211> 547
<212> DNA
<213> Homo sapien

<400> 98

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tactgggtgc caagctatgt gccaggcact ttacatgtat tgatttaaca cttaacagcc      60
actctatatt attccctttt tacagatgag gcaatttaag ctcaaagcat ttaagtagac     120
aaccaaccta gaatcacata gcaaatgaca gaagccagag gcctcccaag tctctctaac     180
tccaaaccct atgcttactc tactatatca cactaccttg caataggaca aagggaatat     240
gtggtaaact atgttcccag catctaaaag ccaggagtgg ttttcatttt tctttaagaa     300
gatgatagtg tgatttgaaa catatctgaa tttcagaaga ggggactttt aaaaattgcc     360
actcataagg aaagaaagaa ctttttcaca tatttttgaa agaaacgatg gtgagaagat     420
attcttgata atagagatat gctaacattt gctttgggtg ttttgtaggt tagatttttt     480
tggtgtgtac tttataggct tgcatattgc ttactttaaa cagctgaagt tctaagtaag     540
agtgttc                                                               547

       <210> 99
       <211> 122
       <212> DNA
       <213> Homo sapien

       <400> 99
cagcctttct gtcatcatct ccacagccca cccatcccct gagcacacta accacctcat      60
gcaggcccca cctgccaata gtaataaagc aatgtcactt ttttaaaaca aaaaaaaaaa     120
aa                                                                    122

       <210> 100
       <211> 449
       <212> DNA
       <213> Homo sapien

       <400> 100
ctgacggctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga      60
ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta     120
ggtgtctcag ggctgggttg gggtccaaag tgtaaggacc ccctgccctt agtggagagc     180
tggagcttgg agacattacc ccttcatcag aaggaatttt cggatgtttt cttgggaagc     240
tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt     300
catgcgggta agttgaggtt atcttgggat aaagggtctt ctagggcaca aaactcactc     360
taggtttata ttgtatgtag cttatatttt ttactaaggt gtcaccttat aagcatctat     420
aaattgagtt ctttttctta gttgtatgg                                      449

       <210> 101
       <211> 131
       <212> DNA
       <213> Homo sapien

       <400> 101
ccatgttctc tcttgactac gcatatgtga gatttgcccc tccgccccgc tcgtgatagc      60
catccagatc ttttacctgg ccctgtcttg gagaatctgt tttcaatctc cactgattgc     120
ccccttgctg g                                                          131

       <210> 102
       <211> 199
       <212> DNA
       <213> Homo sapien
```

```
      <400> 102
ctgctgcgcc tgatgctggg acagccccgc tcccagatgt aaagaacgcg acttccacaa      60
acctggattt tttatgtaca accctgaccg tgaccgtttg ctatattcct ttttctatga     120
aataatgtga atgataataa aacagctttg acttgaaaaa aaaaaaaaaa aaaaaaaaaa     180
aaaaaaaaaa aaaaaaaaa                                                  199

      <210> 103
      <211> 321
      <212> DNA
      <213> Homo sapien

      <400> 103
tttttaggt ttttaaactt tttatttgca tattaaaaaa attgtgcatt ccaataatta      60
aaatcatttg aacaaaaaaa aatggcactc tgattaaact gcattacagc ctgcaggaca     120
ccttgggcca gcttggtttt actctagatt tcactgtcgt cccaccccca cttctttcac     180
cccacttttt ccttcaccaa catgcaaagt ctttccttcc ctgccaccca gataatatag     240
acagatggga aaggcaggcg cggccttcgt tgtcagtagt tctttgatgt gaaaggggca     300
gcacagtcat ttaaacttga t                                               321

      <210> 104
      <211> 309
      <212> DNA
      <213> Homo sapien

      <400> 104
tttttttttt tttttatttt tttttttgca tcaaaaaact ttatttccat ttggcccaag      60
gcttgttagg atagttaaaa aagctgccta ttggctggag ggagaggctt aggcaaaacc     120
cctattactt tgcaaggggc ccttcaaaag tctctgggct tctatttcaa ccgcgatgat     180
gtggctctgg aaggcgtgag ccactttttc cgggaactgg ccaaggaaaa gcccgagggc     240
tacaaccgtt tcctgaaaat gcaaaaccag cggggcggcc gcgctctttt ccaggacatc     300
aaaaagcca                                                             309

      <210> 105
      <211> 591
      <212> DNA
      <213> Homo sapien

      <400> 105
cttatttctg catgggtcgg agagtgggcg ggactgcttt actgagttat agtgaatgta      60
gttttaacct aagcgcctca catgactaac tcctcatcca tcaagaatga gctcagctct     120
cacttcccca ctcctcaccc ccctgtaaag taacctttct ccaaggttat gcttcaacag     180
gaatagctaa catttattaa attgtggcac gtaagtatct tggatatatt ggctcattga     240
atcctcacac ctactatttt acagagatgc cagtggggct tgagattgaa tcacttgccc     300
aggctcccac tgctggtaaa cagtagaggg ggctcctgac ccatcagtct ggcttgacaa     360
cccattccct caactgcgga tcccggattc ccttatcacc ctgttgattt ctccataggc     420
tgtggtaaca tttgttgcat gaatggaccg ttgaaatagg gcctggcagg gagaaattca     480
ggaaatgaat gaatggttct tccctggcag cctttgatga cttacaagcc ccttcaaggg     540
ggaaagccat tttctccct gggactcctt gaaagcccgg gagccctgcc t               591

      <210> 106
      <211> 450
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<212> DNA
<213> Homo sapien

<400> 106
ctgccactcc tgcctctgct accccgaaac cggagaggga gctcaataat aacacaggtc 60
ccactaaact aattaaggtg ttggcataac ctgtcattga attcaagtgt ccaacaactg 120
tttgcttaaa atatcattag acctaatatt tttttcaaag gcacaaagtt taaacatggg 180
gggggcgggt gttgagaggg gtctgggata cccttaaacc caaaaaagtg atttgttccc 240
ccttgcccag aagggtgact gttccactgg gcctgtcacc acaggacatt ttccatgaca 300
agcactcacc ttcttgggga aggggcatca ggttggcaca ggaaaggccc aagtgagggg 360
ccactctgta cattaatact ttggtgatta atgtttgggg agaggcagga ttctcaccca 420
cctttttgac ttcaaacact ctcactcaag 450

<210> 107
<211> 116
<212> DNA
<213> Homo sapien

<400> 107
tcgacgaaag ttactgtcac tcagttgtaa atccatcagc ttttcacctg ttaaaaattt 60
tgcaaaatat acatgttctc ctcctgtttt caattcttcc atcttttttc ttgagg 116

<210> 108
<211> 291
<212> DNA
<213> Homo sapien

<400> 108
ctgctcgaag ttgtcaaaac ccacgtgcag ggcaatggag agtccgatgg ccgaccacag 60
cgagtagcgt cctcccaccc aatcccagaa ctcgaacatg ttttgagggt caattccaaa 120
ctccttcact ttggttgtgt tagtagacag ggcaacaaag tgcttcgcca ctgcagtagg 180
atccttggcc gcctggagaa accactcctt cgccgtctct gcattcgtga tggtctcctg 240
ggtagtaaag gtcttggagg caatgatgaa cagggaggac tcggggttca g 291

<210> 109
<211> 662
<212> DNA
<213> Homo sapien

<400> 109
gctgtttcca cagtacgcct gcctcacacc ttgcgatgcg ccaacatcac catcattgag 60
caccagaagt gtgagaacgc ctaccccggc aacatcacag acaccatggt gtgtgccagc 120
gtgcaggaag gggcaagga ctcctgccag ggtgactccg gggccctct ggtctgtaac 180
cagtctcttc aaggcattat ctcctggggc caggatccgt gtgcgatcac ccgaaagcct 240
ggtgtctaca cgaaagtctg caaatatgtg gactggatcc aggagacgat gaagaacaat 300
tagactggac ccacccacca cagcccatca ccctccattt ccacttggtg tttggttcct 360
gttcactctg ttaataagaa accctaagcc aagaccctct acgaacattc tttgggcctc 420
ctggactaca ggagatgctg tcacttaata atcaacctgg ggttcgaaat cagtgagacc 480
tggattcaaa ttctgccttg aaatattgtg actctgggaa tgacaacacc tggtttgttc 540
tctgttgtat ccccagcccc aaaagacagc tcctggacct tgccccgggg cggcccgctc 600
ggaaaggggg cgaaatttct tcaagaatat ttccatttcc acaaacttgg ggccgggggc 660

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cc                                                                    662

      <210> 110
      <211> 323
      <212> DNA
      <213> Homo sapien

      <400> 110
tcctgtgaaa cagcccattt tcctacctac tgtgggttgc tgctcaggag gaacgatata      60
cgccaataca agcaggaaat ctgcagctcc tctgctatgt gcctcagaac actttcaatt     120
tttctggtca atgctctgat taggtatcat acataaaagc cagcatatta gtttaaatct     180
ctaacaaaaa actatatttt ccaaagtcat tatcatttgg gccaattaag tgatcttttc     240
gtgctttgtt gagcttcatc tttagggcat ctcttctttc ttcccattca tgaagttcgg     300
catttccatg tgcaaattta cag                                             323

      <210> 111
      <211> 336
      <212> DNA
      <213> Homo sapien

      <400> 111
tccagtgcgc tccagcctta tctaggaaag gaggagtggg tgtagccgtg cagcaagatt      60
ggggcctccc ccatcccagc ttctccacca tcccagcaag tcaggatatc agacagtcct     120
cccctgaccc tccccccttgt agatatcaat tcctaaacag agccaaatac tctatatcta    180
tagtcacagc cctgtacagc atttttcata agttatatag taaatggtct gcatgatttg     240
tgcttctagt gctctcattt ggaaatgagg caggcttctt ctatgaaatg taaagaaaga     300
aaccactttg tatattttgt aataccacct ctgtgg                               336

      <210> 112
      <211> 218
      <212> DNA
      <213> Homo sapien

      <400> 112
tttttttttt tttttttttt tccagtcagg agtattttta atcactgtct acagagacac      60
ctacatacac acacgggtgg ggaatgaacc caaagttttt aggtgaagtc tctcagggcc     120
caccccgtgc cacagacctt cctcggttgc agagattctg ggcaaagcat ccgtgctctc     180
atgagattat cctggggaga tttagaagaa ttttgtgg                             218

      <210> 113
      <211> 533
      <212> DNA
      <213> Homo sapien

      <400> 113
ctgcaccgac agttgcgatg aaagttctaa tctcttccct cctcctgttg ctgccactaa      60
tgctgatgtc catggtctct agcagcctga atccaggggt cgccagaggc cacagggacc     120
gaggccaggc ttctaggaga tggctccaga aaggcggcca agaatgtgag tgcaaagatt     180
ggttcctgag agccccgaga agaaaattca tgacagtgtc tgggctgcca aagaagcagt     240
gcccctgtga tcatttcaag ggcaatgtga agaaaacaag acaccaaagg caccacagaa     300
agccaaacaa gcatcccaga gcctgccagc aatttctcaa acaatgtcag ctaagaagct     360
```

```
ttgctctgcc tttgtaggag ctctgagcgc ccactcttcc aattaaacat tctcagccaa     420
gaagacagtg agcacaccta ccagacactc ttcttctccc acctcactct cccactgtac     480
ccacccctaa atcattccag tgctctcaaa aagcatgttt ttcaagatct aaa            533

      <210> 114
      <211> 261
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(261)
      <223> n = A,T,C or G

      <400> 114
ccatatctgc tcggcgctac ttctttcttg gattgatcct gantgatgca ttggcgatgc      60
ctttggagaa ggacatgtga tgtgatggtc ttcacgttcc acatgtactc gggcaaatag     120
ggggacaaac tgaagttaaa caggtcgaaa ctagaggagc tgctgaccct ggagctgacc     180
actttcttgg ggaaaaggac acatgaaggt gctttgcaaa agctgatgag caatctggac     240
accaacatag gacaacaacg t                                               261

      <210> 115
      <211> 267
      <212> DNA
      <213> Homo sapien

      <400> 115
cctctcctgt gggttccaga ccctgttcca gcaacaattg ctgggacacc tgggccgact      60
gctccacctc gccaggccct ggccctctcc atctcagccc tgacagccac ccagtgataa     120
acacagcagg cttcctaagc aatgtgacgc accagagggg tggtggtaca cgttcccctt     180
gaagtcatct gaaaattaga gaacagattt gcctcatagc tgaagagaga ccctattcca     240
agcatgaatg gccttgacaa tgttcct                                         267

      <210> 116
      <211> 239
      <212> DNA
      <213> Homo sapien

      <400> 116
ctgatgacct ggggtctagt gaaaatgcag ggtcagattc agtgggtctg gggtctgaat      60
ctctaaggcg ctgccaagtg atgctgatgc tcctggcttg tggaccaccc tgtgtatagc     120
aaagctctag actaggaggt ctcaaccttg gctgcacaga attatctggg gagtttttaa     180
atttcccagt gcccaggctg cattcatatc atagtagaga cagggttttg ccatgctgg      239

      <210> 117
      <211> 168
      <212> DNA
      <213> Homo sapien

      <400> 117
aaaaaacttt tatattgctg catcttccac agttctttgg gtagtctctg aacttaaaat      60
```

ttgtaggagt tgtagactac ctaaattttt aagttatgga tttgttcata ggttgtaggg 120
gtaggtaaag aaggaaacag acaagaaaat ggcttcttga ggtggcag 168

<210> 118
<211> 150
<212> DNA
<213> Homo sapien

<400> 118
aaaaaaaaga gtttatttag aaagtatcat agtgtaaaca aacaaattgt accactttga 60
ttttcttgga atacaagact cgtgatgcaa agctgaagtg tgtgtacaag actcttgaca 120
gttgtgcttc tctaggaggt tgggtttttt 150

<210> 119
<211> 154
<212> DNA
<213> Homo sapien

<400> 119
aaactgtgtg agatattaac cagccgccct gttataaaat caggaaatcc aaacagcgat 60
ttacaccgat taacaccccc ttttatattt tttcaaatac actgagaaaa taatcaaacg 120
ttttcatctc tcttgtcttt ttttgttttt tcct 154

<210> 120
<211> 314
<212> DNA
<213> Homo sapien

<400> 120
ctgcgtggag tgacgggagg agggaatcac tgtgtgtgcg agagtgcttc agactcaatt 60
tccaaaataa ttttcacccc tctaagcatg taaattcaaa gatggatcct tcatagaaat 120
taaaaaatca atttgagctc atttcgaata cagaacaagt atggcacaga tggaagtcct 180
gccacgtttc ctttaatgat gctgactctt gtatcacaca ggccagcatg aagtttctta 240
ctcagacttt acaggcattt tccgtaattc aatcagtcct gctcccagca caacacagga 300
ggtgattcga gaat 314

<210> 121
<211> 601
<212> DNA
<213> Homo sapien

<400> 121
aaaaaaaacc taattcattg aagtaataac caaataattt tcaatcttga ttcaactgtg 60
attcaaatct tacaccattt gccccttcta tgaatttatg tataaaattt tttaagagtc 120
agagtttttt tttcttgatt aattggatgt atttcacaga atttccaact gctcacgtta 180
gttttcttcc ttttagagtt gatctctcta atgtattaga tcttcatgcc tttgatagtc 240
tctctggaat aagtttgcag aaaaaacttc agcatgtgcc aggaacacaa cctcaccttg 300
atcagagtat tgtacaatca catttgacgt accaggaaat gcaaaggaag aacatcttaa 360
tatgtttatt cagaatcttc tgtgggaaaa gaatgtgaga aacaaggaca atcactgcat 420
ggaggtcata aggctgaagg gattggtgtc aatcaacgac aaatcacaac aagtgattgt 480
ccagggtgtc catgagctct gtgatctgga ggagactcca gtgagctgga aggatgacac 540

tgagagaaca aatcgattgg tcctcattgg cagaaattta gataaggata tccttaaaca 600
g 601

<210> 122
<211> 486
<212> DNA
<213> Homo sapien

<400> 122
ctgtttctaa ttgcttttgt gactgttacc ttttagttca tgccccccca aagagctaaa 60
tttcacattt ttacctacaa aattgatttt taattcctgc aaataattta ccattatgag 120
ctacaaggtg ggcaacagcg cctgaggatc taattttatg catattactc ccaagtattt 180
taacacttgt tggagaagca atatctggat caataaaaca ctgtcccatc aaccatttga 240
gtggggagag ggagaagctc ttctgtaagt aagattctgg caagctcttt gaaatgagtc 300
ttctttccca cagattttct ctactctttc aatacaaaca gataggagaa gagggaatag 360
aaacctggag gaacttgaat atttttgttc tagatagaga tacagttatt gaaaaggaaa 420
cctagaaagt agtcacacgt cgcttattta ggccagaagt aattgtactg ggcaaaaatt 480
tcactt 486

<210> 123
<211> 239
<212> DNA
<213> Homo sapien

<400> 123
ctggtgggtc ttttttttcct ctcagagctc aagcctgtag tgcctgatgt catttctttc 60
aagttgccca cagtatctcc acttaaacta ggctagtaac caaaataatg tggaccttct 120
ttaggaaaca gtgtgggaga ataggagtcc agccgtaaga taaactggaa atatttgggc 180
gtcttgtacc tggctacgca ccacctcagt gttgttccta cataaacaag gcccctttt 239

<210> 124
<211> 610
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(610)
<223> n = A,T,C or G

<400> 124
ccanccaagt cnttgatgat cactgacccn cgcgcgcctg ctggaccaag gtggctgcgg 60
ggaaatcgcc acngngcttt cggttttctt ggtgaaggaa tacaccgcgc cgacagcagg 120
ttttcagtca gggtcaggga ctgttgcttg cgcgcgaaaa tcaccggtac gccgaggttc 180
aggccggtca tgatcgccgg tgcaatgccc gaggcttcga tggtgacgat cttggtgatg 240
cccgaatcct tgaacaacgc agcgaattca tcaccgatca gtttcatcag cgccgggtcg 300
atctggtggt tcagaaaggc gtcgaccttg agtacctgat cggaaagcac gatgccttct 360
tcgcgaattt tcttgtgcag tgcttccacg aaagcttcct ctgttggcgc aacacgcgcc 420
gaaagtagat taaaaagtag tcgattctag cgctttaaca tcgcgcgtat atccgccagg 480
gcggtattgc cgcgaacggc tttgacttcg gttggtgtgt cgtcgttgcc ttcccatgcc 540
aggtcatccg gcggcagttc gtcaaggaac cggctggggg cacaatcaat gatctcgccg 600

```
tactgcttgc                                                          610

      <210> 125
      <211> 196
      <212> DNA
      <213> Homo sapien

      <400> 125
ctatagggct cgagcggccg cccgggcagg taaaaaatca gcccctaatt tctccatgtt    60
tacacttcaa tctgcaggct tcttaaagtg acagtatcct taacctgcca ccagtgtcca   120
ccctccggcc cccgtcttgt aaaaagggga ggagaattag ccaaacactg taagctttta   180
agaagaacaa agtttt                                                   196

      <210> 126
      <211> 247
      <212> DNA
      <213> Homo sapien

      <400> 126
aaattagtta aaaaaatgca ttcctcattt gatatagcca cattccaaat gcttaaaagc    60
cgcatgtatc tagtgactac catactggag agtacaaata tagaacttta cccgtcactg   120
cagacagttc tgttggattg tgcagcattg gacaatatat acagtttgcc tgtatatgag   180
aaagagagag agagagagag tgtgtgtgtg tgtgtgtgtg tgaagtgcaa taaggctgac   240
aggcatc                                                             247

      <210> 127
      <211> 590
      <212> DNA
      <213> Homo sapien

      <400> 127
cctccacggc atggcgcaat tgttgttcag gggccgccag gttgctgccc atgccgatgt    60
agatacgttc cacgtgctta ctcgccagac gcactcgaag cgtcgccagc gctacgtttg   120
cgcttgctgc cactgctgcg gcgacgcttt ttcgggccat cgccggtggc ttcgcctttg   180
ctgctgagct ctttgatcat ctcgcggcgc tggctgtcgt tggcgtcctg gtagtcggtc   240
caccactcgc caaggccgtc ggtctgttcg ccggcgcttt cacgcagcag caggaagtca   300
tagcccggca cggaagcgcg ggttgtccag caacaggtcg gcacgtttgc cgctgcggcg   360
tggcaggcgc tcctgcatgt cccagatttc acggatcggc atggtgaagc gtttcgggat   420
ggcgatgcgc tggcattgct cggcgatcag ctcgtgagca gcttcctgca tggctggaat   480
tgccggcatg ccacggtctt gcaggcgcat gacgcgtttc gaaagcgcgg gccacaacag   540
ggcggcaaag aggaacgccg gggtgaccgg tttgttctgc ttgatgcgca               590

      <210> 128
      <211> 361
      <212> DNA
      <213> Homo sapien

      <400> 128
ctgcccatgg aaaccctcca ggagctgctg gacctgcaca ggaccagtga gagggaggcc    60
attgaagtct tcatgaaaaa ctctttcaag gatgtaacca aagtttccag aaagaattgg   120
agactctact agatgcaaaa cagaatgaca tttgtaaacg gaacctggaa gcatcctcgg   180
```

```
attattgctc ggctttactt aaggatattt ttggtcccct agaagaagca gtgaagcagg     240
gaatttattc taagccagga ggccataatc tcttcattca gaaaacagaa gaactgaagg     300
caaagtacta tcgggagcct cggaaaggaa tacaggctga agaagttctg cagaaatatt     360
t                                                                     361

      <210> 129
      <211> 546
      <212> DNA
      <213> Homo sapien

      <400> 129
aaaaatacaa attcagtaag acttttgctc taacaacaat ttttcaaaac gaatcaacaa      60
caaaaaagta tccagtgttt cttttcttat gaagatataa taaaacacag tattggtaag     120
cacattttaa cagtatgctt ttcttttgta gggaaaggag atatggctat gtctaacatc     180
gtgggatcca atgtgtttga tatgttgtgc cttggtattc catggtttat taaaactgca     240
tttataaatg gatcagctcc tgcagaagta aacagcagag gactaactta cataaccatc     300
tctctcaaca tttcaattat ttttcttttt ttagcagttc acttcaatgg ctggaaacta     360
gacagaaagt tgggaatagt ctgcctatta tcatacttgg ggcttgctac attatcagtt     420
ctatatgaac ttggaattat tggaaataat aaaataaggg gctgtggagg ttgatattat     480
taatagtgtt atgcagaaaa tatgaatggc agggaggggc agagagaaaa atccatttct     540
tcattt                                                                546

      <210> 130
      <211> 733
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(733)
      <223> n = A,T,C or G

      <400> 130
ggggcctctt cctaaaggca ctaatcccat ccaatagggc ttaacctcat gacttaatca      60
actttcaaag acaccacatc ctaatgccat cacatcagaa tttaggcttc aacatatgaa     120
ttttgggggg acacaaacat tcacctcata gcattcattg tttcttgtta ttggcaaagc     180
caagactcac attgtctaag ttatttgact tttgagtccg cagatgtgaa aacagtgcta     240
aacagtccag cttcatgagt ggagaacagc atttgtgaca accaccaaag tacctctgtg     300
gtcagtgtcc tcaaccaggg cacagcatca tggaccagag cctctgcagg gcacagagga     360
gtggtgagga acaggggctc tggagcaacc ccacttccct ctgctttgta tatgggggt      420
tctgcacatg actgcatttg aaaagggctt cactgcgctt gctgaaggag tgcacttgag     480
ctagcggaga gttcccagag ggtgtctgga agaagcaaag gctattcttt gtttcactca     540
gttatagatg gaagtcagac acttctgcct gaagtacttt cacacactcc acagtcttaa     600
gaaggatgga naaagcatgc caactactca naaaaccaca ggtgttcaag caatggtatc     660
cttttatncc tacaactagt ggacaaagng gggcctctgt aatttgggaa agctaggaaa     720
actttttctg ggg                                                        733

      <210> 131
      <211> 305
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(305)
      <223> n = A,T,C or G

      <400> 131
aaacacatac gaatanttna actgtgatta tgaagtgaca gccggctaaa tatgtcttgt      60
attttctctc ttcctttttt tgctaactca tcctttattc cattcctgct tccatggtaa     120
tgcaggctca aataaattac taggatacaa gattacttca agcctctttt ctgtggaact     180
cataatatga taagcatttg ttacaagatt gcctgtagtt gtttagggga caaattatat     240
tagggaaaga aagtctttct ttagttggtt aaattttcta ttataattgg gtactaaatt     300
tattt                                                                 305

      <210> 132
      <211> 545
      <212> DNA
      <213> Homo sapien

      <400> 132
aaacaatgct acactcattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaactg      60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagcggct     120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc     180
ttttgaattt tcaagttact gaaaaaaaat gtgtcgagaa acacattaag aaggcacatg     240
tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat     300
gttcacaatt ttacttgaga aaaaaaaaca aagccactta aaaaaaaaaa aacacacacg     360
caattattaa agttcaaaat ctctggagga aaatacaagc aaaaccactc atacactcca     420
agcctgaaac acacatctaa cctccccagg tactggtttg gttttcagag gtccacctag     480
aaaacaaatc taaaacttca ggcaaaacag agcaaaactg gacatttaac aattacacaa     540
ttttt                                                                 545

      <210> 133
      <211> 330
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(330)
      <223> n = A,T,C or G

      <400> 133
aatatttatt actaatatct tataatgttt tgtggnacca tggcatacct tgggtactat      60
tgtaacanat agttcaggaa accctactat aaggtttatc aaatggtctc ataaacagtt     120
acttattcaa gcacgccaaa gctcagtgaa aagtattttt cacccttact ctttctcgtg     180
tcattcaaag agaagttttg atgtagtgta tttatttgta gggagtaatg aacagatcca     240
tttcacagta gactttgtgc tctaggtgat gcagctaatt gccccagttt ggaaaacatg     300
gacttggatg aattgtcttt tgtttgggac                                      330

      <210> 134
      <211> 627
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       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(627)
       <223> n = A,T,C or G

       <400> 134
aaatattact tcaaatacat tttaaagctc aacaaacttg tgttgaactg aattgcagat      60
cctgaactct atttgaaaat acatcatgaa acagaaaanc ccattccaaa tgaaaatgat     120
agtgctttgt tggggtggg aatgaggcgg ggagactaaa tcactattaa cagacttctt      180
ttcccaatgc aatttgtcaa aagttcaaaa gttctgaaat gtactaaatc ttaagcaaat     240
taaattcatg atattactaa aacttttaa atagtgcaat gacttatcaa gttatagtgg      300
ctgcattaag aacaaattat tgtgtgaaat acctgtataa acacaaaata caattaaata     360
tttctttaca aaaagctgag cattacgcat aatagtggaa tgtctttcat taggtgtatt     420
ttttaaagat taacaaaagt aacatttcct aaaatgtata catgtgccat atttttgcaa     480
acatgcctga gaatgtattt aaaacatttc tgtagtaaga gtttgcaaga acttcacaaa     540
cctgcaaata aaatgcatct ttttaaaaag gtgaaaatgg catctccaca ctgcaacaat     600
tcaaaaagtg cagcatccct aatcttt                                         627

       <210> 135
       <211> 277
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(277)
       <223> n = A,T,C or G

       <400> 135
aaaatcaaat atattatttg ttaaaaatca gcttgtttca ttacnggaaa ttacaccagt      60
ccgttctatt tactttcaaa ccatattcaa ctcctcaact ttcaaacatg taatcaacta     120
atttcaaaag ggaaaaggta ccctttataa aggagagatc tgttaagaca ccaagaaatc     180
aaaattaata tcacttaata attaagtgga taacacatgc ctcccaatac agtgcagtga     240
gaaacacaaa acatcaattc ccgcgtactc tgcgttg                              277

       <210> 136
       <211> 486
       <212> DNA
       <213> Homo sapien

       <400> 136
aaaacagaat gaattcattg ttacagttac agaagtcaga agcccaaata cagtctgcct      60
gaaccaaagc cagggtcagc aaggttcctt tccactgttt tgccaacttc tagaggccac     120
ctgtattcct tggttcatgg cccctctctt catcatcaaa taatcagcat agctttatga     180
cattggcagc tctgattttg ctcttttgcc ttcctcttat gtagaccctt gtaattacat     240
tgggtacacc cagataaccc caaataatct ccctatctca agattcttaa tgtaattata     300
ttgggaaagt ccctttttgtc atataagata acatagcaat ggattccaag gattagtatg    360
tgagtttctt ttgaggggct ataattaacc ctaccacaat atggaaatgt ctattgtttt     420
```

```
tctatgtacc agaaataaga cattaggatg tgaaattaat aacataacac cacttacggc     480
atcacc                                                                486

      <210> 137
      <211> 552
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(552)
      <223> n = A,T,C or G

      <400> 137
ccatcttgca tcaaatgttc ttaaggcagt gactggctat caaccacagt ttctgtctcc      60
ccagttgcaa acacaggatc catgcaacag ttctgagacc atacacttag aaaccacagg     120
ggatgcggat caaatgcaga actcccaaat tataaaacag tcaggctaca ctcaaaacaa     180
aacatagaac atcaacaaca cacatctccc aaaaaagaag tgcaacgcat gcttgtataa     240
accaacaata acaaaaaaac cacaataaaa aatgcagagt ctcccaaaca agttttcaaa     300
tgtattgcan aaagaaaaaa aatgtatata tatataaaat taaaaagtct gaaatactag     360
tgcatagtca attacctaac accaagtttc ttttctttct gtccaagctc tactgcccct     420
ctgatactag cagcatgtct acaggctaag accatagcag caaaaaacgt ttttcatttg     480
gcatttacaa aattaaatta ctgaataaaa atataatttt ttataaaact atttcttaca     540
gtaataattt tt                                                         552

      <210> 138
      <211> 231
      <212> DNA
      <213> Homo sapien

      <400> 138
aaattttact agtgttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgccct      60
aaatgtttga tctctgtttg tcattacttt ttcaaaatat ttttttctgt aaagtataat     120
atataaaact tcttgcttaa attgaatttc tatattagtg gttaattgca gtttattaaa     180
gggatcatta tcagtaattt catagcaact gttctagtgt tttgtgtttt t              231

      <210> 139
      <211> 535
      <212> DNA
      <213> Homo sapien

      <400> 139
cagttgccaa ccctctgaac cgtttaggcc ggttcatcgc tgcctttgaa tctgggccgg      60
tggtgatccg gcaaggggtg aaaccaaaga gcgggggctg tgaggccctt cgcagtccct     120
cgtaagtcgc tgcgatggag tgaactatca cgcatcgtgt ttatttcgtc aacacgaaat     180
gtgatttatt tttgcgaatt aacacggcag ttctcggtta cgttttcgga aagcgtggga     240
tatgattctg tctatcctgt acggatatac agtaattacc gggaggggat tccatggcga     300
agaagcaggc ggcaccggca gcacggcagg aaatgagcgg tatggcgcgc ctcgggcttc     360
gcgtctcatc gatgattaat cacccggtcg cccagacgca gcgctgggtt acgattcatc     420
gcctggacac ggatggggat cgggagtggg aagaggttct gagcgtgatc gctgataccg     480
acgagctcga gctgacgctc aatgacgatg gcagtgtgac ggtgaggtgg gagca          535
```

```
      <210> 140
      <211> 640
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(640)
      <223> n = A,T,C or G

      <400> 140
acattggtgg cacttgaact gagtgcaaac cacaacattc ttcagattgt ggatgtgtgt      60
catgacgtag aaaaggatga aaaacttatt cgtctaatgg aagagatcat gagtgagaag     120
gagaataaaa ccattgtttt tgtggaaacc aaaagaagat gtgatgagct taccagaaaa     180
atgaggagag atgggtggcc tgccatgggt atccatggtg acaagagtca acaagagcgt     240
gactgggttc taaatgaatt caaacatgga aaagctccta ttctgattgc tacagatgtg     300
gcctccagag ggctaggtta gtacaaactc gcattcatgg cttggtttcc cagaagatct     360
ccatttaact tttttaaaga aagtttattg ctttctttaa cctgcatttt ttctaagttt     420
tttttcgcat aaaggtgctg tctttgtggc aaggcctagg catgacaatc ggaggactcg     480
agggggatgg aggactagtg atccggctgg ctgcttccag tcgattagag aggtgaaaaa     540
gctgaacgtg tgcccantna atcttcaaaa aggcagaaac atatcacctt ntgccccent     600
aaacttgttc tttttccgaa ggggaaaaaa aaaatggaaa                           640

      <210> 141
      <211> 127
      <212> DNA
      <213> Homo sapien

      <400> 141
aaaaatcaca cactgacaac acagaaatac gaaatgctag gaaaagtcta gcatatgaag      60
gaaaaacatg tcttatgcac tctaatataa tttttcaat tagtataaag gcaaatgcgg      120
ttttttt                                                               127

      <210> 142
      <211> 126
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(126)
      <223> n = A,T,C or G

      <400> 142
aaatatcctc tggatgcntt caagtaatac taatcatttc atgngnaaaa gtcttttaat      60
aaacaaattc agagtaaaat taattgaaat atttataata catttgttac acagttattt     120
ccaata                                                                126

      <210> 143
      <211> 730
```

```
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(730)
        <223> n = A,T,C or G

        <400> 143
gcaagttctg gagtgttcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata      60
ccctcctcag agggtccctg cgagggtgag gggagatcag catggcaggt gtgctgggca     120
cggcagggcc tgggaagggc agatcctttc cccatccctg ccacaaacaa cccaaacctt     180
taaaggagag caatggcctt gtgtcaaaaa caaaaacaaa acaaaaccct gtcctaggag     240
actggggccc taatttctaa tagcaagcct ttatgagtcc ctaacactct actgggctga     300
gtatctcaca cgccagagga taacctgcct tctgctcacc accaccccgt agtagttgtc     360
attgtgtcca tttcacagat gaggcaaagg ctcagaagag tcatgtgtta aaccagcttc     420
tagagcccat gcaggagctg caggtgggga gaatcacctc taggtgctct tcccatggaa     480
tcctcaccct ccttgagtgg tcactcactc anctttccaa tgggtgtgtg acctttgacc     540
agctttcttt ccttntctgg gcctcagttt cccaccttgg acaaagtaag aggtctcttg     600
ggnttcangg tagttcttcc taacttcttt tccttttcat ttgagcatcc ttcttcattt     660
tttgccacct ctcttgtcat tacangcttt taccttcggc cgcgaaccac gcttaagggc     720
naaatttcca                                                            730

        <210> 144
        <211> 485
        <212> DNA
        <213> Homo sapien

        <400> 144
ctggtcagaa atgattctct tgtgacacca tcgccacaac aggctcgggt ctgtcctccc      60
catatgttac ctgaagatgg agctaccttt cctctgtgtg gcattttgtc gcttatccag     120
tcttctactc gtagggcata ccagcagatc ttggatgtgc tggatgaaaa tcacctgtgt     180
tgcgtggtgg gtctgctgcc gccacttcta atcctcatca tgacaacgtc aggtatggca     240
tttcaaatat agatacaacc attgaaggaa cgtcagatga cctgactgtt gtagatgcag     300
cttcactaag acgacagata atcaaactaa atagacgtct gcaacttctg gaagaggaga     360
acaaagaacg tgctaaaaga gaaatggtca tgtattcaat tactgtagct ttctggctgc     420
ttaatagctg gctctggttt cgccgctaga ggtaacatca gccctcaaaa atattgtctc     480
aacag                                                                 485

        <210> 145
        <211> 465
        <212> DNA
        <213> Homo sapien

        <400> 145
ccaagacagc tcgtttctgg agagtatgag ggtgtgtttt cttattgtga aaggaactac      60
cttctcttag agggtaggaa gaatgtggtg tgtgtgtgtc tcataaagca accggacatt     120
ataggtgccc aggtcatcta taaaaacgat ccttgggctg tgtaaaaatg aagtggcttt     180
tcagtatcct ctttcacact tgctgcttcg ggagactatg caatgatggg aaggtgattg     240
cccctttatt tcattcagtg ccatggtccc tgttgttgta gtaatttatt tgtttagttc     300
attttttttt tcttaacagt caaggggaag agtgattcct cacactgctt tcaagctgga     360
```

```
ctgagccagt ctcattctgg gaaagaaatg ctgtgtccag aactcagcag ctccatctat     420
tttttccagt cgaaagaaac tgatctttag gcagttttta cttgg                     465

      <210> 146
      <211> 351
      <212> DNA
      <213> Homo sapien

      <400> 146
ccagccgggg taatctgtat gtggcggact tgagctacga cgtgggcggc aagtgcctgt      60
ttgaccagat cagcggcgtg aagcttatgc caactcatcg tttgataaat ccgaggatca     120
gttcaagacg tcgcagcggg tgattttggg aacgtcgttt tcggtcagta aattgtgggt     180
agcgacggag tggttgatcg gcaagaatga tccgtatatt ggcgggagca gctataccga     240
gagcctgggg gctgggggga gtaaccagtg ggagaatcag ttatatatga acattgggta     300
ctacttctga cttaagatct ccagcgtttt aactggcctt atcgcaggca a              351

      <210> 147
      <211> 654
      <212> DNA
      <213> Homo sapien

      <400> 147
acttattttt aattactgaa tatttcttag acgttttggg acagatttta tgtaatcttt      60
ataagtatga tttctgaaga aaagcaaatg cattagtatg tttgccttaa acttgtagac     120
taaaccaagt attgtaaaat aaacagcgat aacagtgata gtttttaact ctatggtcat     180
tgtatcactc tggaaaatgt ggagtagctg taataaatct actcctgtat tatgctttac     240
agtgcaggtc ttagtttttc tttttctca tttcttttga aatggcatct cgaacaaagt     300
ccaccaatcc ctttacaaaa gaatgaactg ctcctctgtg tgtacttcat agaaggtgga     360
atcggacaga ggcaggttag tgacagttat tcctgaaata caggagcaga gtacagtctg     420
ttgtggtttc ccggattccg cgcctagctc agccaattaa gcatgagaca taggccattg     480
agccacttag tagttatgcg agtggataga ttggtatgta agagggaaag aggtctgctg     540
taaagaacaa cacttgtttg tctgtgggga aagaaaagca gaatcttgag atgaaagttg     600
gcatacaaat aggatactat cgccagtagg ttatattaca aaacatttat cggg           654

      <210> 148
      <211> 539
      <212> DNA
      <213> Homo sapien

      <400> 148
tgaatatcat gagggtgatt ttcacctgat tgcaaaactg ccatagtttg aaacactttt      60
tcaatttacc agacacactc tgtcaagact tcatatactt ccaacttgca agcctgtgtt     120
ttgccttctc caacctaaaa aggaaaagct ttaaacgatg aacttacatt ctattaaacc     180
atcagacttg agcttatcca tctgtttagc gtgaatgtac aaaccaggta catttccacc     240
aaacacatag aaaaatcttg tgcatcacag ttcagctaag ggtagtagga caatccttac     300
aatcctcctt ggatttcttt tttaagatgt caaagaagca ggtaagcaac attgttcatt     360
tgttactggg tgttctagat caaaccttca caagctatat atatagcttc atatgctata     420
gcttacaaat ggggtaacaa agtaaaagaa aagaacaaat tatactttga cactttatag     480
tcaaagtata attaaaaaag aaatcctaca gtgggtaatg gagaaataga taatttttc      539

      <210> 149
```

<211> 273
<212> DNA
<213> Homo sapien

<400> 149
tttttggtca ttctcctcaa ggagccgctg gatagtagtc ttgattgact tccaccttgc 60
ccctcataca gtccggtact aaggccaccg acatcccgag gaacctccgg aaccacgacc 120
gccaagcaac tcgacccacg ataggtgggg cctacgctct cgaagttgat tggatgctcc 180
cgcctacagg gcggggtaca gaagggacgt catttgtgac tggacgcgca agagctatac 240
tcagcagctt tcctctgtcc cagcccctag aac 273

<210> 150
<211> 200
<212> DNA
<213> Homo sapien

<400> 150
gtttttacta ccgtatggcc catttaaaag ggatgtgtac gccttacact ataaccctta 60
aaccacctag aaatatgaaa ctcaaactgc cactgacctc cctcaccaag ctccataaaa 120
gtaaaaaatt ataacaaacc ttattaacca aactgaacga acatatgggc gattgattca 180
ttgcccccac aatcctaggg 200

<210> 151
<211> 515
<212> DNA
<213> Homo sapien

<400> 151
ctgtagcgat ctttaagaat attttatata tgaaatctgg atttagggtt cccatggtct 60
ggcaccactg ggtacagtag ttctacatgg cagtaattca ttggagttga agcagtgagg 120
aaagagtcaa gtactagtct tttatcctca gtgtccagtg actgtcaaga gaaatgggac 180
tgccttctgc attgggatat gtgggttaaa gagtagtcca atatagaaga gtgagaaagt 240
gmaccctctg aggcatagta atgttttatt kraaaacatc tcacatgtat tgaatactta 300
sataggatgt attctgtatt actgaatttt ccagattatt gaagcaatca cctttctgtg 360
tttaaagttt tagaaagaat gcttttaaaa atgcttaaca taagataagc ctgttttcat 420
ggtgcaaggt cctttctatg aacatgaatc actggactct gagggttgga ctaagatcac 480
atctacatcc cttttaaatg actagtgtgc tcaga 515

<210> 152
<211> 243
<212> DNA
<213> Homo sapien

<400> 152
atttcaacaa catacttgtc gaggtagtta taaatcttct tagggggagg tggtggtttc 60
tgttggaatg ccaattttac agcttctgct gctgattcag gttctttaat tatgcttttc 120
tttgagtctg cttcagatag cacaacaaaa aaatgatgac acttttcaca cttgacaaaa 180
cgggtggatg atacaaaagg tctctacatg tgtgcacaag tcgccacatt taggacagcg 240
cag 243

<210> 153

```
      <211> 620
      <212> DNA
      <213> Homo sapien

      <400> 153
ttgtcttctc taccttacca tagccagttg ctttcatttt aaaccagagc aagtaacata      60
ttagtgactt gaatcttcat aagttaaagt aaaaaacagc aaaaaaccta gatctttgtc     120
ttttagaaca cagaccattt tcaggaaagc agttagctaa gtgtttaatt catgaatatt     180
gtatactgca tcccctacca caatttacac aatcctgtgg atagtcctac ctcaccctgg     240
tcaacctaca tgatccttaa gctaatggcg gatcacgatg accttgtaga catgcacaca     300
actatacctt tgtccaacag atcataatat atctgctatc caactggttt tacctgccta     360
atcctactga tttgggcact gcttgtatag tctctcaagt tcacaggaaa tgttgatttt     420
ctaaggtcct cattttaca gagtatacag gcaaagtgac aggggaaaag gaattagtct     480
aagagtaagg ggatgattat tatattgagg ctaaaaccac aaagtggctc aggctttaaa     540
aaaaaacact gtggataatg acaaaaagca taagtaaaaa tattttgaga aaaataaagt     600
acaagttttg aacaccccc                                                 620

      <210> 154
      <211> 843
      <212> DNA
      <213> Homo sapien

      <400> 154
cattgttagt gacccaagta aatttatagt ttttaagttc agaggaaaaa taaagcctat      60
tttttgttaa cagtcttaat aaataataaa atggaataaa gaaaccaaaa aaaaaagaaa     120
aagtttgtat gaaaattcat ccctatttct ttattttgga ctaagtagtc aaatttctac     180
tatattaata ttatgtaagc gacacccatt taaattcact ctctttgata gaaaggtgag     240
ttgattatca cacctgctat tttttcactg ccaaaragac tgcaataacc tccctccatc     300
accctcaaaa aacaaacaga aaccatctga ggcatagcca ttgtttacat attgtgtttg     360
tgtgcaccta tctacaacgt tctttcttct aaggagttta tctgccaata ttttcggctt     420
cagcagcagc gctcttcttg acagactaag agaaggatct acagaaaagt catctgatta     480
aggttttggg tcaaattaaa actctctgga cagaatcctc tttccttcac ttggatttct     540
gcaaacagaa agcagattat tctcctggca caatagcgac tctagaaacg cttatgtttt     600
tcagactttg gcagaacttg ttaagaacag catcatcata atacatttgt acaaactcga     660
atttcagtgg ctcttttgtc ccacatgatg catgatgaaa tttataaagg tctgttttac     720
ccccacaggg tcatttcttt tgtgttccta cagagccaat aggcttcatt taagtccaag     780
ttattatatt aaccatccct ttcactagac tagagaactt ctttttcatg gtccatatcg     840
tga                                                                  843

      <210> 155
      <211> 674
      <212> DNA
      <213> Homo sapien

      <400> 155
tttcgtgtca gccccaggtt tgctccagct attcacaagc agaatataac acaagaaaaa      60
caattcatat cccttaggga aaaaagagga tcaattcatc actcaatatt taatacagcc     120
aaaatgagct gccaaaacaa gcacacacac aaatactgtg aacagaaaaa tacaagaaaa     180
tgactaagct gggagtcttg acggggtatg gacattgctt aaagcactta tcagtcccca     240
gaaaaaccaa accaaaaaca tttttacga tggcatggcc tcatggcccc ctttaaaact     300
gttgatggta acaaagggca gggggtgggg agagaaaaca caatcactgc tccctttttg     360
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ctcgccagtg tgactgcacc cctcacggca ccggcatgta cacaactacc acacaaggag 420
gaccaagtcc ctctgctggt ggcctcctaa aaggcaaggc ttgagttttg gctgatgagc 480
aagttctctc cgttaccaat ccctgccaac cagcactacc atggctgaat tgatctaccg 540
ttttcctgag taaactgtaa ctggctacag tttcggtaac atggaaaaga actcagctac 600
tacagccaac tgcaatactt caggaacccc ctccatccct ggggctcctc actcctagtg 660
catcttgatt ggat 674

<210> 156
<211> 671
<212> DNA
<213> Homo sapien

<400> 156
cctttagtga acacctttat ctccatgtcc ctcttagagc ccagagagct gcccataggc 60
attttccaga attcctcatg tcacctagtt caatttccat taactcagat cagccattgt 120
gattcaccat ttgtcaggct ctcaggttta acaaaaccta ctatcaccat catccttcaa 180
cagccacagt ctgaattgag ccaacatttt tttttctttg agaaagaagt gggctggggc 240
acaactttta gtctgagggg agctagtagt cggcttgaca attaaagcca tccataacaa 300
cttttcctca aatgtgttga ctcctcaggg gctaaactgc tcttagctta gaattatgct 360
ttactagaga tctaccatat aagtgggtta atcactacca tcctgtaact agttatatag 420
cttccagaca tgagggagac atcaaacagg gatggaagca accccaagga tatgcaagaa 480
gggcatgatg aacccccttc cctctggcag gagaacaagg ccaaccaagg gacagactgg 540
aaagcactta gatgtttaag gaggagaaag gggaagcttt gaccagtcct tgcctttgc 600
caagttcagc cagttctccg ctgcttgcaa cctctagcgc agtaacattt tgcagaattg 660
cagattttcc c 671

<210> 157
<211> 474
<212> DNA
<213> Homo sapien

<400> 157
cgcgttcttt aattctttaa gcctagaaag tcctttacac tacttaccta aaggtcccaa 60
agtaaaacac acactagtag taaggctagt gcatttccct tctagcactc aaagaaagct 120
taacattttt gacagtttgc aaataccgcc ttgtatttct gattcagcct tattcaaagt 180
atcataataa aatatttatt aaatstatgt tgatctgcgt gcatttatga tctccagatt 240
aacgttaggc ttctctgttg ggccctaact tggaggtgct tttttggatc cctcctcccg 300
tgattcattg taatttcatt tcccttgtca tggctctgac cagagaagat tctaaatatc 360
tgcccccaaa gccaaaatta tatcttttga aaagtgaaat gaagagttga gtcastaatt 420
tattttagat attactgcct aaaacaattc cccaaaattt atggaagttg gagg 474

<210> 158
<211> 584
<212> DNA
<213> Homo sapien

<400> 158
ttggattctg cagttccaca tcattcactc cggcaaagga gagaacttgt aacaaagatg 60
agtgccaagt ttagtcaatt taccctacct ggaatactat atacaactct gggtctcatg 120
tgtgttaaaa tacatacagt gaagctgagg aagagccact gaagtaaaaa gtattgttta 180
caagttggaa aggatgtaaa aataatctaa agtatactaa gtcaggaata aaaggcagag 240

ttaataaaat tgtggctggt actgatagac gaaacagata tattttctaa atcctggaat 300
aattattaaa aaattttaca tgtatcaatg gattccagac tccatatttt aagtttcaca 360
actactgtca tttaaaacta taccttattg aacgtctccc actctcaata aattacccca 420
aatcactctt ctccaaaacg taaatttgga acacactgac ttacaaattt tgggcttaat 480
ttataggatg ttgtggccct caaaaatatc attgtgggct aaacaaaata aattcttgaa 540
acaattctaa aaatcaatca ttgtccaaaa tgaacttttt ctaa 584

<210> 159
<211> 671
<212> DNA
<213> Homo sapien

<400> 159
cctaatttta ttacttttct tgccactgct attattgata gaaatacaat taaataatta 60
agatgaacca atccattgga agattactaa aattgtatct tcccaatgcc tcctacagta 120
agatttcttt ataattataa cccttggaga caatttgaac tttatttaaa tgttctgctc 180
aaatctaaat ttccttctcc taggctgaag cctgatctaa ataaggaagt agttgggata 240
tatccacagg ctgtcgaaca tggagctgca tctgagagac aggtggcagc aaccaaaagc 300
aaagcaggga ctgagaacag gcaggttcca agagcaaaat ggaacttgaa agccaagtat 360
ggttcactgt aaaggagaaa atatagaaat acggaactag aacacctggt ctgggatgtg 420
gtaagcaccc aaaatatagg aaaactgtat gaattcttgt gaagcagtaa actatgatag 480
taatcatgtg acacatatga taacaaactc aaaacaggga aaagaggggc tttattcaat 540
gctggagata agtgaaaaaa aaagtgaagt gtctcaagga cagaagttat catctcaaaa 600
aggcatatca gctagatctc gcggaaacca tatgattatc ataattctag actctgttcg 660
gtattacaaa g 671

<210> 160
<211> 315
<212> DNA
<213> Homo sapien

<400> 160
ccagagaggg agggctctgc ttcaccacag ggcaccagaa gaggactggt gcgcgggaag 60
accaggtaat cataatgcta ttaaaaatag cagtaatcat actgttttat acattgtata 120
atgtcataag gattttaact ttcatgtaac ataattgctg taaaagtttc cccagtttgt 180
tttgtgctat ttaccctggt gttaaaatgt gtaagaattt acattttagg tatgttaggt 240
ttattccttt ttatatggtt tctgtttgaa attttgattt tagaagacat tcattctcaa 300
ggtcataaaa cacac 315

<210> 161
<211> 607
<212> DNA
<213> Homo sapien

<400> 161
tttytgtgtc accttggata attgcttaac ttttaaaatt tacgttccct catttccaaa 60
aagggattat aactcactgt tattttgata attgagataa atgtacgtac aagtgctttg 120
aaactgtaaa gtgcattata aacagaggga tttaccatag aggttctacc ttgatgtatc 180
aagagaagcc ttttctggaa tctggtgcag ccttgtgaga tgctgttagg taaggggact 240
ccttggtaga atttcttaca tttgtgtaaa aagttctggt tcctgagtaa ttccaaagaa 300
gatgctatga ggagttcact gtgcctttga tttgatccca atgggtcaga atatgttttc 360

tcattcagta ggctactaca ggatttgaag tagaaaaaac agggtccagt gaccttcacg 420
ggatcctaga tgttcatgaa tttcaatcat ttgagattgt ggggtgtggt ccaatgctgc 480
tctcaaaaag atgttgcctt tcttcasaga gcattaataa ctaaaaaatc ccctggtccc 540
aaatttattg tgtgtmtctg aaggctttaa ctgaagaaat gaaawgcaca ctcatggaac 600
aaactaa 607

<210> 162
<211> 443
<212> DNA
<213> Homo sapien

<400> 162
tgagttttga aaaagtgaat aatcaaaagg aaaataattc cttgttgttc ataaattaag 60
catcactaaa gtctcttgaa aggcatttct gtattgggca agatttaaaa tactaaagcc 120
ttaggtccta ttcatattta aagtagcatg tttgtaacct gttactattt ggagagagaa 180
gcagttgcct gccacaattg aagactacct ttcaaatagc aaaagagaga gagaaggctg 240
atatttcggg cttttaaata aagatttgtg tggttctgct tttactgtaa ctgtcacttt 300
cccagtgaaa atgatttcat atacatttga gggtcttaca sgtatgggta aagttctata 360
aattgcaaca aaatgatacc caatttcatt ttatcctttt tgtattgtga aactggaaac 420
tttatgacat tgtaaattat cag 443

<210> 163
<211> 686
<212> DNA
<213> Homo sapien

<400> 163
caggcaaatt atagtcaaat acatcacccc cctcaggcat ctgtggcaag gcatccctct 60
agagaacaac taattgatta cttgatgctg aaagtggccc accagcctcc atatacacag 120
ccccattgtt ctcctagaca aggccatgaa ctggcaaaac aagagattcg agtgagggtt 180
gaaaaggatc ccagaacttg gatttagcat atcaggtggt gtcgggggta gaggaaaccc 240
attcagacct gatgatgatg taagttagct ttgtatattc ttgaaacacc tataaagttt 300
tatttaccga ttgaatactt aaatgtaagt gaaaatctaa tagatgttta tgtaaatcta 360
ggtagacatc acctggattc cccactctat tgcttacctt tttgttttgt aatttgatca 420
gttcaagtta aaacaattta accaaaaact atgaatgttt atgatataat gaaatgattg 480
ttaactttct tattgctttt tcacacacct ataaaagtaa ttttattact cccaagagaa 540
atcactaaag gcagaattac tagaggtaaa aataactagg gttggtacag tattactcag 600
gagaagtcaa ggggagaaaa cttgtcccaa tgattcaaaa taattttggc atgggggggg 660
ggagggaaaa aaatttggct tccttt 686

<210> 164
<211> 706
<212> DNA
<213> Homo sapien

<400> 164
tttttttttgt ttcatttgct gcttaaaata aaaattataa attagattta aatggagcac 60
taattataaa acagattgca agtaccacca tttgaaaaaa aaaaaaaaaa tcagtggatt 120
tccataacac agaaaatgca tggacatgca tctacagtag agttaaaaat ttcctgtgac 180
taaaaaatta aaaactggaa tcaccagtag caaatgtata gtcaatggct atgacaagaa 240
cagatcctgc cgagctcata aatgcaatta ttggcttttt tgctttataa aaaagacatt 300

acatatttta ttgcattatt ctcctaataa aaaacatact accacgtagc tctccccatc 360
cccattcttt gcttccagat ttttatagaa aataactgtt ttagtctggc cttggaaagt 420
gaacccacca gcaccacctt cacctactca ctcttcaatt caatatgcac atagcaaaag 480
ccaacacttc aaatctcttg cccacatcaa aaaaagtagt ttcaggagaa aaacattaat 540
accagttgaa taaaaataag ggcataaaag ctatgagaga gatagctctg ccatctgtct 600
ctgggctaaa aatcaaggct aactattgcc tttggcacca caaggttcaa ggtccatggt 660
tttattagaa aagtccccac aaaaaaatta aacccccctc acccca 706

<210> 165
<211> 427
<212> DNA
<213> Homo sapien

<400> 165
tyywgggcaa ttaggcagga gaaggaaata aagggtattc aattaggaaa agaggaagtc 60
aaattgtccc tgtttgcaga cgacatgatt gtatatctag aaaaccccat tgtctcagcc 120
caaaatctcc ttaagctgat aagcaacttc agcaamgtct caggatacaa aatcaatgta 180
caaaaatcac aagcattctt atacaccaat aacagacaaa cagagagcca aaatcatgag 240
tgaactccca ttcacaactg cttcaaagag aataaaatac ctaggaatcc aacttacaag 300
ggatgtgaag gacctcttca aggagaacta caaaccactg ctcaaggaaa taaaagagga 360
tacaaacaaa tggaagaaca ttccatgctc atgggtagga agaatcaata tggtgaaaat 420
ggaaaaa 427

<210> 166
<211> 124
<212> DNA
<213> Homo sapien

<400> 166
accatgtttt cgttgtgtgt gagcagggaa gggaactttc ctgccttatt taaacctggg 60
ccgaggattc gtggaatctg cttgatcaga gactctgagg ccaaaaacgc atcatacttc 120
ttgg 124

<210> 167
<211> 232
<212> DNA
<213> Homo sapien

<400> 167
tctgcatagc aaatatgatt taagaattta acatcattat ttgatcacaa gcgtaaatat 60
gtcaccataa ataaatgtaa attcattgta caaaaattcc caacaactct taatacaaat 120
atggtacatt tgacagtttc tgaaacagat tattttaaa actttttaaa acctaagctt 180
tattttttc ctggttatta gacacacaca aaaaaaataa aaagaggctg gg 232

<210> 168
<211> 677
<212> DNA
<213> Homo sapien

<400> 168
tttcacaatt aaccaacatg caaaaattct cagactaaac actgagaaat tcttcataca 60

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atgcatttgc caccttattg catttttaaa atctttattc tatagtgaat tggtattccc     120
aatctgccta agcaaaggca tgcccttcta acaagatttg cttagagcag aggtgataga     180
aggaagaatc cgaagaccct ctggcatggc aatctgggag cagcacattg ttgatggagt     240
ccaagtgagc acatttcaca caattcattt agtgacaagt gggcttgctc ccttttcatc     300
caggaaaaaa actactcaca gaccactgcc cagaatctgg aataagaacc ctcattttaa     360
ggtattcttc ccaacaaata aatatctaaa tattgaaagg gggcatatca gaaaacttaa     420
aagacacaat aaccaaaacc aaaaccctct tcaaaacaag taagcaatgt ctgtatttag     480
ttcactctaa aacattctta gcttttcttg cagtttgttc ctaaaagatt tgattgggca     540
caagaggaac gaaattatta ataaaataaa agcttatttt tgtttttgct gtggataatc     600
ggtacaaaac gtttccagat ctgagactta aatggatctt ttaaggtgaa aaggagaatg     660
ccaggttcta ctgaaat                                                    677

       <210> 169
       <211> 635
       <212> DNA
       <213> Homo sapien

       <400> 169
ttaagaagac tgggcattta tactctctct tgctagtcag cctggagcaa gcttggagca      60
gacgcacatt tttgtactgg cacatattct tagacgacca attatagttt atggagtaaa     120
atattacaag agtttccggg gagaaacttt aggatatact cggtttcaag gtgtttatct     180
gcctttgttg tgggaacaga gtttttgttg gaaaagtccg attgctctgg gttatacgag     240
gggccacttc tctgctttgg ttgccatgga aaatgatggc tatggcaacc gaggtgctgg     300
tgctaatctc aataccgatg atgatgtcac catcacattt ttgcctctgg ttgacagtga     360
aaggaagcta ctccatgtgc acttcctttc tgctcaggag ctaggtaatg aggaacagca     420
agaaaaactg ctcagggagt ggctggactg ctgtgtgacg gagggggag ttctggttgc      480
catgcagaaa gagttctcgg cgggcgaaat caccccctgg tcactcacat ggtacaaaaa     540
tggctttgac ccgctaccga cagatccggc cgggtacatc cctgtctgat ggagaggaag     600
atgaggatga tgaagatgaa tgaaaaaaaa aaaaa                                635

       <210> 170
       <211> 533
       <212> DNA
       <213> Homo sapien

       <400> 170
ctgtgatctc acaagtgtga aaaatcttat gaatgtaaaa tgtgtggaga ttcttctttg      60
tttttagctt ccactttggg aacatgtcaa agcacacatt gagaagtccc atgagtgaaa     120
gagatgttgg aaagcccttg aacttggtcg ttaggaaaca tccacactga agaggaacct     180
gactgtatgg aaggtcaaaa aggctgtatt aatttacatg caaaaagtca cactagagga     240
atgccatatc agaatgcttt tggtaaatat acatgtttta aagaggttat atatcattaa     300
taaaaatatc tagctggtct gaagaccctg agttatctca attgttcacg gttacagatg     360
gaactcttta ttattgagga gttccactct ttcccccatt tgtcactact acacttccct     420
agtctttaaa acaatttag gctgggtgca gtggctcatt cctgtaatcc cagcactttg      480
aaaggccgaa gcgagtggat catttgaggt caggagttcg agaccagcct gga            533

       <210> 171
       <211> 568
       <212> DNA
       <213> Homo sapien
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      <400> 171
cccttgscaa actttccctt aagtattgca ctacaagtct aagacacttt tcactcaaag        60
ttccttcctt ccttacctct cttttaactt ggagtcagac tttcatcagt ctgacaactt       120
ctccctgtct ccttcctttt ccccccttca caagcatttc acctaacaaa tttcttatgt       180
gcttaatccc ctcttagaag cagatgccaa gatgggatta agcacataag aggtcctgga       240
ctaatacaat gacaaaggct ccccttgaag catcacacta aaaggaaaaa aaaaaaaaaa       300
acctagccat tttacattaa ctatttctaa aatatagtat ttgcttccct atttgctaaa       360
acaaaatata ctaaacatga ctattccaaa aatctgtagg gtactaagaa tatgaagaga       420
ttcactctac ttcaggggat ggagttgtag tagaaaaggc tttgtggagg gagggtggtg       480
tttgaaatgt actttaaaag ccatcctcaa agcctcgagg gctatacctg gcctggtgat       540
tatccaagga cagtccattc aaacaggg                                          568

      <210> 172
      <211> 167
      <212> DNA
      <213> Homo sapien

      <400> 172
ccatttacag gaatcagcca cttcagttca gacagcttta ttaaaccgcc tggagcgaat        60
tttcgaagca tgttttcctt ccatacttgt ccctgatgct gaagaggaag ttacttccct       120
gaggcacttg ctggaaacaa gcactttgcc aataaaaacg agagagg                     167

      <210> 173
      <211> 391
      <212> DNA
      <213> Homo sapien

      <400> 173
cctcccaaag tgctgggatt acaggcatga mccmccmcgc cctgatgata gacacgtttt        60
taacttctaa aaatatatga tcatgattgt gtctgtggag acttgcacat atactaaatt       120
ttaamcaatt agagatattt gttcattacc acattttggg agtcattatt tcctctatga       180
agagagaaag gaatttgata caagttcaca ggggcttcca gtagattgag acttttattt       240
ctagctgagc tgctgatgta tgaatttttt ttgktattat gactttcata tgtattaaaa       300
ataaaatgaa aaaacaaggg attaggtgag gaacctatac gtctctaata tgcaaaatac       360
cacagaaata atgactgktg ggaaaattag g                                      391

      <210> 174
      <211> 474
      <212> DNA
      <213> Homo sapien

      <400> 174
gaactcagag agaggattgt caccccttggc atctgagctg acactataag gacaatgagg       60
agtctccttg gggatagatg gggagatgga aggacgatgc ctgtcctacg gggtcttgga       120
aggttaggga tacacactgt gagctgccac aggctcaaca gtacggatag ggggtgctgg       180
aaccagccag ggctctgatc accaagctat gtgccccatg cagaggaagg ggtagtggca       240
cactgaacca cccagccaca aggctatctc cccatacagg gcacctttaa aaaaattatc       300
cttacagggg aagacgggga ggaaggatga actgtgtgcg gtgatgttgc agtgagtgtg       360
agtttgtgtc cgtccgcttg tatgagggcc taccttttac taactagccc ccaactttca       420
ttatctcccc tttttctgtc taccccttctg cctttttaaa gtggcttgca atcc             474
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      <210> 175
      <211> 655
      <212> DNA
      <213> Homo sapien

      <400> 175
ccttgcaggg gtggggatgt gtgggcttgt tcactgttac agcccatgta tacctgaagg      60
gcaacatgta cccacaaatg ttccaggagg taaataaaaa atacaattca gcctcttcta     120
aaccatcctt gttgatatct ctgctacttc cgaaagttaa ttcgttattt ggactccata     180
attttcccta ttaattcacc ctatgtccaa ctccaacagt gaaaaaaatt tatttaatct     240
ttgcaataag cctataggca ggcagcatta tcctcagtct gcagataagc taaggctcag     300
agaagcttgt atactgtcac ttaggtagta attgcaagag ctggcattca gacccagact     360
gtgggactcc tcactccatt ctctttcccc ccactaggct gctccttaaa atacaatgga     420
tgcttgatga acgcttgtgg gaatcctggg tggacacagt tccttttcgg ccaaaagcac     480
cttgacgact tgtgaagaat taatctggaa aacttaacct atttataaaa acgtgttatt     540
aagggcaggt tattcccacc ccctttacca aagaaacccg ccctgacctt tttttactgg     600
gggttggtct tgggcatttt caacaagggg ggaacagttt aaaaattccc ccctt          655

      <210> 176
      <211> 660
      <212> DNA
      <213> Homo sapien

      <400> 176
cctggtcaaa gtgggcatta ccattcaagc attactagac atcaccgtaa cgaaggctct      60
gttcacatga aactacccct tctccattgg gggctcagac tctgctctca tccaggatcc     120
tgaactctgc tccaggcacc tgttcaaccc tctctcccac ccactgcctg tcacttcact     180
gactccagtt acattgaaac aattttcagt ctaagggagg attttctacc tttcagagct     240
gacctccgac tttaagactt gacaggtatt tatcttgaaa ccagagaggg agctggagga     300
aaaaaaaact gagcaagcac atcaatgcct tttccacccct tcttcatcct ttccacactc    360
accgactgcc attaccaaaa cgccaagcac aaccggtttg gaacaagacg cattccgttt     420
taattaaaac caactcatta tgtattttag tgggggggaa ggggggcaca atcagggttt     480
tcaccaccaa attttccaca cggtttctga acaccattgc cttttaaaaa actatttttc     540
cacctccaaa atatttattt aaattttatt tattacggag gtggtattct tcctttggga     600
gccaaattgg gaaatttagg gaaccttttt tattacccgg ttttttgggc gggtaaaccc     660

      <210> 177
      <211> 459
      <212> DNA
      <213> Homo sapien

      <400> 177
ctttttctct tcctctgtgg aatggtgaaa gagagatgcc gtgktttgaa gagtaagatg      60
atgaaatgaw tttttaattc aagaamcatt cagaamcata ggaattaaaa cttagagaaa     120
tgatctaatt tccctgttca cacaaacttt actctttaat ctgatgattg gatattttat     180
tttagtgaaa catcatcttg ttagctaact ttaaaaaatg gatgtagaat gattaaaggt     240
tggtatgatt ttttttttaat gtatcagytt gaacctagaa tattgaatta aaatgctgkc    300
tcagtatttt aaaagcaaaa aagggaatgg aggaaaattg catcttagac catttttata     360
tgcagtgtac aatttgctgg gctagaaatg agataaagat tatttatttt tgktcatgyc     420
ttgkactttt ctattaaaat cattttacga aaaaaaaaa                            459
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<210> 178
<211> 720
<212> DNA
<213> Homo sapien

<400> 178
ctgcaagctc ccactccttc catttatctt aacgcccagg ctgacttcta agctgctttt 60
cactttccta cctccactgc attttcgccc ctgataattt ttgtaagctt acctaagcct 120
cccttctttt gagatcccct tcttaaaagg gtccattcta ttaaccctac cccatatcca 180
gttactttta ctacctgctg atctatcgct accttgtcca attcatggga attacagggt 240
gcactgggac aagagtaaaa tgatccaaca aacataatgt tgcatttaaa aaaataagct 300
aaaagatact gatgactttt tataactaca acatattcgt ttgtgaataa gaacatatat 360
agtaaaaaga tgaaaatgtg aacaggttga ctatttccta aatttatggc agaaggttgt 420
tctggagagg atgggaagaa aaaatgaagg ctggcagtga tgggtgggga aatgcaacct 480
ccaaaattat ctatctatat atttttatta aaaacaccca cagtaattat ggcaaatgtt 540
aatggtttgt ttgttctaag gttttggata catttaagat ctcttgcttt ctgggtacca 600
tttcttttct tttcttttct tttttttca aattaattcc aaaagactta tatctgctac 660
atgaagaacg aagcaagttc agctctcttg gctgaaatgt tcaaatgctt gagggcaagg 720

<210> 179
<211> 427
<212> DNA
<213> Homo sapien

<400> 179
ctgtgaatct gtctggttct gaacttattt tttagttatt ggcaatcttt gtattactat 60
ttcaatctct tcctggttta atctaggagg gttgtatatt tccaggaatt tatccatctc 120
ttgtaagttt tctagtttat gcacataaac gtgttcatag tagccttgaa taatcttttg 180
tatttctgtg atatcagttg taatatctcc catttcattt ctaattgagc ttatttgaaa 240
cttctctctt cttggttaat cttgctaatg gtctatcagt tttatttatc ttttcaaaga 300
accagctttt tgtttcattt atcttttgta ttgtttttgt ttgtctcaat ttcatttagt 360
tctgctctga tcttcgttat ttcttttctt ctcctgggtt tgggtttaga ttgttcttgg 420
tttctct 427

<210> 180
<211> 728
<212> DNA
<213> Homo sapien

<400> 180
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tcatgcacta gtgcatgtat gcatttttac atttttaaa ttacaaaaat caacctatta 120
taactgctta gatatatatg aagtaaaaat gaaagttctc cctttacatg acccatcccc 180
catcatttcc ctctttatct tatactgtca gcattcccag cttgtagcac agtgtctggc 240
aatagtaaat cctcaaaaaa tgatcaatga ataatttaat aatgattaat aaataaatta 300
atgatgatgg tgaagataaa ttttagcatt tattgaacgc taactacaaa ccagggagtg 360
tggtaaatat tttataaaaa tcaatgaatg agctaaaatg ccattctatt atttttttgg 420
atacggttta atattttact cataaatatg cttaaagaat attataatta tatgacttag 480
aatggtaaaa caatatgtac agcagtatcc tattttttag aataaaaata taaatatgtg 540
ctcacatatg tggttggggc atgcctagaa acccgattag aacgggattt tttcttacca 600
ccattttttt tacctgggaa aaatatggga aaattttatt tcccttcttt ttggttctaa 660

aatttatata caggagccta tttggctttg gataaatcat tttaaaaaag gtggtttaaa 720
aaaaaaaa 728

<210> 181
<211> 546
<212> DNA
<213> Homo sapien

<400> 181
acaatccttt ggaagacact actgggcttt gggtgctgct ttttaataat tgagttattt 60
tgagcttgcc aagtaggatc tattgcctgg actaaaattt atttcctaat cttctgatga 120
ccaagaaagg aaaaattaag tttgcagatg ggagatgaaa tatagccagc gaatatgcat 180
actggttctg aatgaaagga attaactttt cagtcaagaa acagtctgca tgccgtaaat 240
tgaatttttc ctgcaactgg aatgattggt taattctttt tgaacactgg cctttctccc 300
caagaacact aatgaattgc taatattttt taaagaaaac tggtttttta attaggtaag 360
ctccacttcc tcttattttt taatccctaa agaaaactgt taaaagggaa tggatctatc 420
acgccttttc ttttaaaacc acctttttaa aaaaggattt ttccaacccc caatttgctc 480
ttattttaaa attttgaacg ccaaaagaag ggaaataaaa atttttccct taattttacc 540
ccctta 546

<210> 182
<211> 333
<212> DNA
<213> Homo sapien

<400> 182
ggccactctg actgggtctg ctaattcaca tgctctttgt gacatacggc tctaagaggc 60
agaggctgga agagaagtat gtgggttgtg ggatcaagat acccaagttt cagtcttgac 120
actgctatta cttagtcagg tgaccactgt aacttcatct tgattgagcc tcagatgtct 180
cacctgcaaa atggagtttg aaatttgcta tggttgggtg tcacacggat taaatgaaat 240
aatgcctgtt aagcgcctat ccagcactta ataagatggc cactgcatca taatgctttg 300
ggcacaagta acacaacatc caacccaaag ggg 333

<210> 183
<211> 393
<212> DNA
<213> Homo sapien

<400> 183
ctgaatttct tgggctttat gtggcagtgt ggtaaaaata tatgatcaga tttcactgtt 60
aagaaaattc tttcagcaat acatgtagag tcaagtttct tgcatggata actgaacatg 120
tgggttatga gattttaaaa aatgtctcgt gacaaacttt acggaaatgc aacaatctgg 180
acatctagtt ttgtctgaga gtggcgtgga tatgaagaac tgtgctgttg gtgctgatgc 240
cacactaagt tttggcagtc acactcttgg ttcttcatat ttgaggagat gggatggtga 300
ggaggcctgt tggctttatt ttattacgtg ccaccatcta gaatacagat tcttggatat 360
ttcatcttca caaaggtgaa gctgcaaact cag 393

<210> 184
<211> 700
<212> DNA
<213> Homo sapien

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      <220>
      <221> misc_feature
      <222> (1)...(700)
      <223> n = A,T,C or G

      <400> 184
ccaggscawt gaggaaaagr gaaagaatwt arrggstwtt caaataggaa aaraggaagt      60
ccaaattggt cccntgttkg ccagataacc atgattgkgk atttagaaam ccccatgwty     120
tcagcccaaa atctccttaa gctgattaag camcttcagt aaaktctcag gataaaaaat     180
caatgtgcaa aawtcacaag crttcctatm cgamcaatam cagmcaaaca gagccaawtc     240
atgagtgrac tcttattcac aattgctagt aagagaagaa aatmcctagg aatacaactt     300
mcaagggatg tgaaggwtct cttcaaagaa gaactacaar ccrctgctca aggaaataag     360
agaggmcmca agtaaatggg aaaagcattc tatgctcatg gataggaaga atcaatcccg     420
tgaaaatggk gatactgccc aaaataattt atagattcaa tgctatcccc atcaagctac     480
cattgacttt cttcmcggaa ttnggaaaaa tctactttac acttyatagg graccaaaaa     540
agaagcccwt gtagccaaga caatcctagg caaaaaagac caamcctgga ggcatcacag     600
tmcytgactt cmaactatwc taccaaggny tmcrgkgmcc aaaacagcac ggkacntggt     660
mccaaaccrg acwtwtwgac cmmcagacac agaacmgagg                          700

      <210> 185
      <211> 192
      <212> DNA
      <213> Homo sapien

      <400> 185
ccagyctttc ttttaagtaa gcgctttttc aagctcattg tagctacaaa gtcaataaat      60
tggtctttgt tatttttacc tgaaaaggct gttaaaggtt aaaatgacaa actcaaattc     120
aaagggattg gaggatttgg tgtttatgat ttctcagaac aacaatctag agaccaccag     180
ggtgggtttc ag                                                         192

      <210> 186
      <211> 688
      <212> DNA
      <213> Homo sapien

      <400> 186
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtgg gatatttctt ctggatagat      60
ttcagatagg tagttccctc aaataagatt atatgggttt gcattttcaa ggcagagttg     120
tatacttcct gctctttatt taaataaaaa aacttgaaaa tctgttctgc ccagtattgt     180
aagcgctcag gtacaaatat gaatgaaaca atctctgcct aagtaacaca agtataggga     240
caagattctc agtaaaattc tcacgtgaaa tttgtaactc actagacact atcaggagat     300
caataattat gtaattaaaa aaaataatta cctgccaaac tgggttcttc tttggcactt     360
ctgcttggtt ttaagacaat tctcacatag aagcttatta ttccccatta gtcattccat     420
agatgtaaaa ctggtagaaa caggacttga attgaacatt ctttacaagt aagttatata     480
gcttctgaaa aaagggcttg aaaaagcatt tttggggact ataagaacct tcaaatgctt     540
tcccctctta acaaacctta aaattatttt gaaaataatt taagggggct gattttctct     600
tgtcaaaatc ttgaacccca cttaccaggt ggttggtcaa accaaagttc aaaaaaaagc     660
ttctggcctt tcctttatcc cacttgca                                        688

      <210> 187
      <211> 779
      <212> DNA
      <213> Homo sapien

      <400> 187
gcaaaaaaca gatacatttt cagtgtttaa aaatgaacaa gtatggaaag gcttatacag      60
taactgaaaa gtctcctttg ggaagccaag gtgggaggat tgcttgaggt caggagttca     120
agaccagccc aagcaacatg gcgagacccc atctctacaa aaaattaaaa aatcagccag     180
gcatggcgga catacttgta gtagtaacta catgggaggc tgaggcggga ggatcacttg     240
agtccgagag tttgaggctg cagtgagccg caacgcgccc tgtactccag cctgggcaac     300
agagcaagat gctgctctaa aagaaatttt cttttaaaga aaaaagtctc cctcatagcc     360
tgttctacaa aagtcctatt tcttcccaca aaaagcctct ggtacctggt gttagttctt     420
ggggtggaag attactttta aaaatagaac tattttttaa gtatatcttt tagggaactt     480
tagttcccga agctttagga aatgggatct tgaaaacaaa agggatttca atacctatga     540
caatgcttaa agaattattg gggcatttat ttttcaatgg agggtccaca aatctttgga     600
aacccttggc caattaccag aagccacttt aatttttgac cgaaaatgtt tttaaaaatt     660
ggcttttgga aaaactgtct ctttccccaa aaatgaaaac cttgaaaaaa aggggaattt     720
ttaaggttgc cccctcatta aattttaacc cctctgaaag aaaaccctct tgtgacagg      779

      <210> 188
      <211> 394
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(394)
      <223> n = A,T,C or G

      <400> 188
ggcgamgtct ggycaccatc atgcccttta atcaactcac acctgtttaa agagtgtttc      60
tgatttgacc ttcatccctt agtttactgg cgttaaaaaa agtctcagca attttcatta     120
tttctcgtgg gtctcattat caaaccttta cttatttcgg catatttcct ctgggcttct     180
tctagtttct gccttacaag caatgctgtt ctgtaaattt attgaaacct ctggaacatt     240
tcacctttag agatggagga tggaaggatt ggyaccagaa gagggctaag atacgttytc     300
tgtcttngag ctgaaagcac agyctactct ccttcgtttt gycgatgaga aaagttgagg     360
ccagaaggga ggtgacatgt ttagagtcac ccag                                 394

      <210> 189
      <211> 681
      <212> DNA
      <213> Homo sapien

      <400> 189
aagttctgac tttggtctat aaaacagggt tattggctgt ggctgcactc aatatctaaa      60
aagttattag gaagtgcctc gttattgtca ttaaagatat ctaaatatgg tagaccaaag     120
gttgttgaga aacacatatt atggactgag ttctgtttct tctgctgtgg cgcacctaag     180
ctcaagcctt ccttctctcc ctccccttct ggccggcatg gtatctgagc tcacagacag     240
acaaggcatg ttagaatcat cagatcatga gcaccgtgct gggatttagc cctctccaaa     300
gtcaattctt acagtccata ctttgcttaa atcctcagtt gttgaggtct gctctgctgt     360
cagtaatccc agctataaat ttcccccaaa tgtggggcct agataaagta gaaggtggat     420
```

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ggactcagct tattttcatg ggatgacagg aactggaaag agaaagggca ttgaaaataa      480
aaagttattc cagaatagca ttaaccctct tactgttcaa gaattaagaa agcctactta      540
gaaatgaggg ccttgagaat gatacccaaa tattggtctt tctaccaaaa aatggccttt      600
ccaaatatct gctttcctgt tccccaattg gctttttaag tagaattaag ttacctaaaa      660
ctttacctga agggtggttt t                                                681

        <210> 190
        <211> 839
        <212> DNA
        <213> Homo sapien

        <400> 190
caaatacatg atttccattg gcatagactc ttctatagtc tctcaggcac accttatgac       60
taataagaac actgtcttct agatataagc caagttttag gagttatctt tgtagtttct      120
gtgttgagac tatgggtctt ccctgtgcaa agacttgatt agcaaatact atttgaaacg      180
atcccaaatt catagtgcag ttgaccaccc ttctgatcaa ggggatctct gtatatccca      240
tgaaagcttc ataggtctca ccctagatta agtgcttcac ttctcaagac agtgaacaga      300
tggaagactt ttgtagttat cattatacaa ctgtgccctg tgtgttttat tatacaacca      360
gagaactgag gcactggctt tacctgtcag ctacgccagg ggtgtgacgt catctttctg      420
acttgatcac acatgccaca ttgcttaata tttcaagctt agactgaaat aatcctgtgg      480
taaaaaattt ttgggggggct ggggaggtaa agaacaaggg ggggaacttt ggaatatttt      540
tattcattaa tcatatttcc cgaattgtat tttattttga aatgaccata agggacttaa      600
atacgtattg tggttaaatt aaatggaccc aaatggaggt aagtaaacct aatgggacaa      660
atgaataaaa ggtttatgac tgggagcatt tacccatgaa cctccttaga agctatttaa      720
cctttctttt ggaaagccct gaaggctggg aacttaaatt ttaaagacag tacctatttc      780
cagaatcgct tccaaatggc catgttttaa agggccaaca ttttgggatg gccctgccc       839

        <210> 191
        <211> 697
        <212> DNA
        <213> Homo sapien

        <400> 191
ccatcctgaa tactgatttt ctaatggaac tctattcaat ggcgattgta aaaccctgag       60
gctccgttac tattatggag catactttca tctcattctc ggctattggg caatatgtat      120
ctcataagat tttatcacat ttcacagatg aactgttaat tgattccatg ggtacgatta      180
ggcgagatcc aagctggagc tgcagctctg agtcccataa attctttgtg cttctgtaaa      240
gaataaatct gtttttaatg caaattaaaa ctactggcag ggaattttgg ctcccagtta      300
ttaaaagact ggaaatgtgt aagtggagaa aggcaataac tgcagtaatc tcttaccgga      360
ctctattata attccaaaca tacataatgg tgagaaaaac cgggaaggga agaatgtggc      420
aatgtccact ctttgcccca aacataaccc ttaatttcca tggcgggccc aaacactggt      480
aaaaaccaaa atggtaccct ctatagcatg caacttttat ttcactccaa acgaaaaatt      540
attttgacta tggcttggga aatccattag tagaagaagt tttataacct ataggaaccc      600
ggccatttca tttctaccaa atcacaggaa ttttagaatg ggcaaggaat ttacaggaag      660
acttgcccaa ttatcttttt ttgggggact aaaccaa                                697

        <210> 192
        <211> 687
        <212> DNA
        <213> Homo sapien
        <400> 192
ctggttacta tagctttgta gtataattta aagtcaggta atgtgattct tccagttttg      60
ttatttctgc ttaggatagc tttggctatt ctggatcgtt tgtggttcca tataaatttt     120
aggatagttt tttgctattt ctgtgaagag tgtcattggt actttgatag ggattgcatt     180
gaatctgaag attgctttgg gtagtatgaa cattttaaca atattgattc ttccgattaa     240
tgaacatgga atgtttttcc tttatttggc gctctcttta atttccttca tcagtggttt     300
ataggtttca ttatagagat ctttccttct tttgggtaat tcctacgtat ttaatttatg     360
tatcgctatt gctaaatgga atgacttttt aaatttcttt ttcacattgc tcctggtggc     420
atattaaaag ctactgatgg atggtgattt tggattctgc cactttactg gaattggtgg     480
atcagttcta atcgttttct tatgcacccc tttacggttt ctacatgtaa gaatatatca     540
ccttcaaaca cggataattt gacttcttcc ccatccaatt gggaggccct ttatatcttc     600
tcttggcctg aaggctctac ttaaaacttc ttatcccttt gttggaataa cagtggggac     660
aaatggacat cccttgtcat ggtccca                                         687

        <210> 193
        <211> 493
        <212> DNA
        <213> Homo sapien

        <400> 193
ctgctaaaat gatgttgcta aagcattcct ttttcttttg attaaacttc atgtttacaa      60
aaaaattaat tctagcagaa taacgaatgg ttttgttttc tagttctctg ctgaatgaac     120
agttttgcca attatcttca tagagtagtg atataatgaa tgcaacctca aatgcaaacc     180
aaccaattca cagtccatac cccaatcact tccttcatca gcctcaaaaa tcgctaagtg     240
aaccagtaga atggttttgg agcagtaata ggaaagcaaa tagaaagtca aggggggactt    300
tcaacgccaa caagaccaat tcagatcctg atctgactgg tttctaatac aatctctttc     360
cagagtaatg gagcatgagt ctgccacaca gaactttaga gagagtcctt tatttcaaag     420
actgtaaagt tggaagaatt cattcatctg caaagtcaaa tgtcaaaagt tgtgcttccc     480
actcctcatc agg                                                        493

        <210> 194
        <211> 424
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(424)
        <223> n = A,T,C or G

        <400> 194
cyagggcant tnagcangas aaggaaatan mggggattca attagggaac wraggakarw      60
caagttgtcc stgtmtgcag atgmsgtgat tgtatatcta gamcacccca ttgtctcagc     120
ccaaaatctc cytaagttga taagcawctt cagcarmgtc tcasgatscr acmtcwatns     180
gcraaantca cmwgcattct tatacaccaa tawcagacaa acagagagcc aaatcatgag     240
tgaactccca ttcacaattg ctacnmaaga gaataaaata cctaggaatc caacatacaa     300
gggatgtgaa ggacctcttc aaggagaact acmaaccact gctcaaggaa ataaaagagg     360
atmcaamcaa atggaagaac attccatgct catgggtagg aagaatcaat atccgkgaaa     420
atgg                                                                  424

        <210> 195
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```
      <211> 229
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(229)
      <223> n = A,T,C or G

      <400> 195
tgaacaccct tnggaaggaa cctgctcgna tgtannanaa anggaccgga cagtctgcta      60
aaatcgccct ctttagacgc ggcgcgccgg ggcagagttt ttctctggtg ctttgacctg     120
tatttggttt aatggttttg tcctaatctc ttcaatcaat aaaattgtgc gtatttaact     180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa                 229

      <210> 196
      <211> 557
      <212> DNA
      <213> Homo sapien

      <400> 196
gcggtggctc atgcctgtaa tcccaccact ttgggaggct gaggtgggca gatcacttca      60
agttgagagt ttgagaccag cctgggcaac ataacaaagt gagatcttat ctctacaaaa     120
aaattaaaca aacaaaaaaa caaatcaaca ttcatttgca gggctctttg gtcttcttaa     180
agaacaaaca tatgaaataa ataagctgat tcttaaagat aacaaatata atgagctttc     240
tcaactgtaa aagcatctct aagttgttct atcaatgcat atccactcca tgaactaacc     300
tgaagaaagt gttgaccatt ctacccaatt aactgtaaac taagattgct ttaatggttt     360
gcctaaattt gagtaccttt aaatttttgc tttttatcca aattcattct cccttcttca     420
aattaaatag ttttgttaga aatcggataa gcaagatgta ctttttagaa agggcaatag     480
aatcctacaa catgctagaa tttgaaatgt ttttttaaat cagtmmtttc tctatgctag     540
taactaagaa aattata                                                    557

      <210> 197
      <211> 624
      <212> DNA
      <213> Homo sapien

      <400> 197
ttttactacc tatatttaaa atgatccctg acgcccctca agacaaatat attaattttt      60
ttactttgtg ggatagagat cagaaaaaga gtagagatga aaatactgga gaaacaatgc     120
aggagatatt tatgaggtga gaatgtcaag aaacttgtaa agggagaata ctataatgac     180
ccctgaagag agagctttag accagttgag tattagaggt tgccacgtgg ctattcatcc     240
actaataaat acaagaaatt actaaaatgg aagccactgg aaatatgttt tgaggaaggt     300
gagaatgtgg acctattata aatgggtgaa tatgatttct ttctcattaa gttcataaat     360
aactttcaga catgtaacag tttatgaagt gtgccgtagt catttagtat aagttttata     420
cacaaaagtg tttttactaa gactgtcaca ggttcttttg tgaatcttgt ttgtttttcc     480
tcattgtaaa tactgcaata gaacatttgt gtcttaacat aaggcaataa atgaccttaa     540
gaaccttcac ttttatatag aaagtggagg aaaagttggc agagtaattt gttgattata     600
gataaaagct cttgtagaaa ttgg                                            624

      <210> 198
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<211> 175
<212> DNA
<213> Homo sapien

<400> 198
ttttttttt ttttttttt ctaacactta tgcatttatt ttcatgtgta agaagaaaaa 60
cgtaactagc acgtgaacat gactgcatgg atacacggct cagcacgagg ctaaagtcag 120
aagtgagtga aagcaaaacc gcatgttgat ttaagtgaaa taacagaaca gaaaa 175

<210> 199
<211> 871
<212> DNA
<213> Homo sapien

<400> 199
ctgttgatca atgatgagct cccaagagta accagcctct atatagtcag catcactggt 60
ttctcaggaa aagcatcacc attgttcatc ttgctgcaaa atgtatgcac aagtatcttt 120
ttatttttaa aaaagccctg acattttatg actgctgctt ttctaagata ttttcaaata 180
tacagtccat acggttcaga cacaatggac tggggataga gacggctata gtgccgataa 240
tggagaaact agccagagct tcagatattt gttttccagg acatctcaat aattgggtac 300
acctcacaat atgtgagact tgacgtcgag tggcacggca tactctggcg caggcacttg 360
ataaagactg tgtttgcaaa tacttagcct gcacttcaag ataccaggca tctaagcacg 420
tcccagatgg tgacagttaa tcttcaaaaa accctatgtg gaagtattat cattgtcctc 480
attttacaga tgaggaaaaa gagacacagg gatgtcaata tcttcctcaa ggtcacacag 540
caagtaagtg atggaacagt ggctcagcca tgaagctatt gctgttaacc actaggttga 600
tttgccttca ttaatttctt cctaaaactg cacatttccc gttagtccct ctttttggtc 660
tgtcgtttga ctcttggcta ctgcttagag gaagattcat tctattattt tctaacttag 720
taaatatgtg caactccttg ggacatgac caggcaaaag ctggatacag aaatgtatgc 780
ccaaacacca tcccaagtta cccctaacag gtcttttctg gaccctgttt gtaagggggg 840
tatatttgga aaaattttta aaattttctg g 871

<210> 200
<211> 737
<212> DNA
<213> Homo sapien

<400> 200
gacattttga aggtaacagc aatatctgtg tatagatggg gttgtggttt tgttatttat 60
ctgctattgc tgaactatcc tttgtcttga gcgataaaag agaagtaaaa tactaaagaa 120
ctgaactgtc catttctgga ccatgagtaa agatgctggc tgtcaaactt cctgttcata 180
cattagttta tttatagagt gtactctcta tgtaaggtat tgactgataa tgttactttg 240
acttcagata gcttgcagtt taatggagga agaagacaaa catgcaaata actaggtcaa 300
tgaggcatcc tttgtgttcc attggaagct aggctgcttt gtaaccttgt taatttctgt 360
ggttttggag tgcattcatt agcaaataca ccccttgttc ttatccattc tctgcttttt 420
tctttatttg gcatttgatg acatttttc atgtggggaa attgagtcag gtgaggtgga 480
aagaaaataa ggacacgaca ctaaattctt tgatgttttt ccttaaaaaa ttgtttttca 540
agtgctccat aaagggttgt gaagttttaa gagccatagg acttggatta ttgtgaaaga 600
gtgtctctag gggccaggt taaaccattt caaggactct ccttctctca tctcccttgt 660
tccacccagg gtggcgaccc ccaaaaagca caaagcctcc ctttcttcat gggaagggta 720
aggaacggaa gggaacc 737

```
      <210> 201
      <211> 493
      <212> DNA
      <213> Homo sapien

      <400> 201
tctagaaatg cagcttttat ttattacccc atttctttca agtccttgga aaataacata      60
ttaagggtac aagaaattaa cacatgatgg aaaagtcatt gtgacgccaa tgaatttcat     120
tgagtataaa ctcatctact tcaaatttat tttataacac aacctaagat actcaagata     180
attatttaat ggttagctct taagttgaat tggtctacat aatgcgtggg aagaaaacca     240
gatttttagc cttcttgcca aatccagacc tctggttgat tttctttga cagaagatgc     300
aagttatttt ccaatttcac aattaaatgt atttaacatg aacattattt tgctttaaaa     360
actataaaca ttgtaggaga attatagcca gtcttcagtt ataaccactc caccctcctc     420
actttctctc tctctctctc tttttttttt gctatgggat ttaatgggaa aaatatgtaa     480
aaactgtcac taa                                                        493

      <210> 202
      <211> 283
      <212> DNA
      <213> Homo sapien

      <400> 202
ccttttttatc tcagtgacac cgtccgggga cgcaggtggt ggtgactcaa ggctagcctc      60
aaagggcagc cccacctcct catcctggac cacagagacc acctgcttgg cgcgccgtcg     120
cttttccgag agggtggctg actccggggt gctggggctg gggctgccgc ccccgccgct     180
gttgctgtac tcctcgcccc agtcgatggg ggctgccctc ggacagcagg tgcaggttgg     240
gggcactgtt acgcaagacc atgctgcccg gagaggtaga tct                       283

      <210> 203
      <211> 713
      <212> DNA
      <213> Homo sapien

      <400> 203
ctgcttttgc gcaaggtgcc actggacgag cgcatcgtct tctcggggaa cctcttccag      60
caccaggagg acagcaagaa gtggagaaac cgcttcagcc tcgtgcccca caactacggg     120
ctggtgctct acgaaaacaa agcggcctat gagcggcagg tcccaccacg agccgtcatc     180
aacagtgcag gctacaaaat cctcacgtcc gtggaccaat acctggagct cattggcaac     240
tccttaccag ggaccacggc aaagtcgggc agtgccccca tcctcaagtg ccccacacag     300
ttcccgctca tcctctggca tccttatgcg cgtcactact acttctgcat gatgacagaa     360
gccgagcagg acaagtggca ggctgtgctg caggactgca tccggcactg caacaatgga     420
atccctgagg actccaaggt agagggccct gcgttcacag atgccatccg catgtaccga     480
cagtccaagg agctgtacgg cacctgggag atgctgtgtg ggaacgaggt gcagatcctg     540
agcaacctgg tgatggagga gctgggccct gagctgaagg cagagctcgg cccgcggctg     600
aaggggaaac ccgcaggagc ggcaccgcag gtggatccag atcttcggac gccgtgtacc     660
acatggtgta cgagcaggcc aaaggcgcgc cttcgaagga gggggctgtc caa            713

      <210> 204
      <211> 275
      <212> DNA
      <213> Homo sapien
      <400> 204
gtagacaagt acagcagatc cagacaccag atctagctag gctaaatgta cagtatctaa      60
cttgatctga actgaacctg tattccttga tgatgcctaa aactacatcc atagaattct     120
ggtgaacctg taatacagtt ctgaaagtac agttttatat aataagatgc tgatctcttt     180
attctttcaa gtaagagtgc tagagaacaa attgtgttac ttgccttggg atttattgaa     240
cgtctggaaa atgctgtctt cctagatcca aacag                                275

      <210> 205
      <211> 694
      <212> DNA
      <213> Homo sapien

      <400> 205
ctgttcctgt acatttaact gaaaaaaaag taacttaaaa taatataaaa atagcactca      60
tgtatgtcct acagttatag gtgaaatttg atattgtttg tcttacatag catacctata     120
gacagcttaa gtaaagtgac tgttaagagg gttatgctta ttgatgaact cttgtagttg     180
cttaccagct ctgttagtat agttaaattg atctcagtag cttcaagtat ttataaaatg     240
gttgaagtcc aaatacatgt gataattaca atacactttg aattaatgga gggtgggagg     300
ctagttgaaa tgcattttat ttacccaagg agtatgttaa aatgatagtt ataaatgttg     360
gaagtttaaa gcaagatact cagtttagtt ctttacaaat cataagaaga acaaaattag     420
atgttgacat tgctatttta ggctgtgtgt tttccatatg cttcttgctt tccctgtcac     480
aggtggtggc agcaatattg gtgtgattga ggttatgctg gcaccactcg cacacaggcg     540
cacaatggtg ttagctgggc agaaagagtg gcatctctgg ctaccgggct gggggcgacc     600
tttaccatag gatgaagtaa ccttgcattc ggctgcaagg tgtactgtac cgtacacagg     660
tgctgggtcg atggccactt tctgcttttc tttc                                 694

      <210> 206
      <211> 704
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(704)
      <223> n = A,T,C or G

      <400> 206
tttttttttg gnaaaaacag ggtttcatca tgtttgccag gctagtctca aactgctgac      60
ctcaggggat ttgcccgcct cacccaattc aactttcgta agtcagtatt taccatctaa     120
ctcagtgtcc caaaatttaa aatttccttg cactttacag caaaaataca tattggggct     180
ctactgaagc aatatataca tgtcaaaact aaaaatcaga aaagcaaaag ggtccattca     240
acatatagca gcttatattt aaatatgtac aggtatgtat gttttcacag ttagatcttt     300
aaaaaaattt atatttgata tgttcaaaaa tacttctatt ggctataaat aatattttaa     360
aagctcaact gatcaaaatg cattccaaga acatatcaaa ttaaataaat cttctacgtc     420
tttaaaaaca gataattgaa gtcagtaaag cttgaggttt gtgttaagtg tattctgtca     480
gtccctacta ctagggaagg cagaatcttc taaatacgat acgaaagaaa ctcccaaagc     540
ttggaaggaa tcggcagctc ctgaactttt tgggggggc atccctcttc gggattgaca      600
tgcgacataa atgttgcaag ctaagggacc cccccgggg gagtgggccc caaaaaaaac      660
cacaccttcc ccgtcaatgg tggtcccccc accaacctta aaaa                      704
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<210> 207
<211> 225
<212> DNA
<213> Homo sapien

<400> 207
ccattttaac tgtactgcca atagaattct ggaattgtgg aaaattgtat cattgaagtt 60
cagtaggatg tgtggcttaa aaatttatca ggaccacaaa aaagaaaaca aaaatatttg 120
gtactgaggt tcattgccag ggcaggaggt atttccagaa aatactcatg cctgtgttct 180
gttccttgct ttcccaaata ctgcatgtga ctttcctaag cggca 225

<210> 208
<211> 678
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

<400> 208
cctatatcta tcaaaaaaaa tccagttcct aactaataat ctcccaaaaa gaaagcacca 60
ggaccagatg atataaatgg caaatttttt caatcattta aggacaaaat aataccaatt 120
ctgtatcatt tcttccagaa cacttcctaa ctcatcgtat gaggccagca tcactctaat 180
agcaaaacca gataaagcca ttacaagaga gagtgacaga ccaatgtggt tttattgagg 240
atgcaaacaa aatttaacat aatatttaat agtgaaaaac tggatgctct ttccctaagt 300
tagagattaa ggaaagaatg tccccttcac tactcccata caacacctta ctgaaaattc 360
tagctagctt tataaaataa anaaaaacca naaaataaaa taaaaggtgt acagactgga 420
agatacagtg aaggaggaag aaataaaatt ttctttgcgc ataacatgat tcttctatgt 480
ggaaatcaca gagatttgaa catttttttt ttttgagaca gtttttgctc ttgttgccca 540
ggttggagtg taatggcgcg atctcggctc actgcaacct tcacctcccg aattcaaggt 600
gattctcctg ccctcagcct tcccggagta agcttgggga ttaacagggc atggcacccc 660
ccatgccccc agctaaat 678

<210> 209
<211> 720
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 209
attattttga accctagcat ttagaaatga aaaacttttt ataacaatca aatacatgat 60
aaagtatgca aagagtagga aattattctg atgacatatg gagggttaca aaggagaaaa 120
ctttttgcta cctctgataa agaatagact aaattctcca agaccaatct gactggtgtc 180
ataataaaag gaggtacaca cggaagcaca agggatgtgt gcctctggag gaaaggtcag 240
gtgaggactc agtgagaaga caagccaagg agccaggtct tggaagaagt caaccctgtt 300

gacaccttga tcttggacta accctgtgga caccttgatc ttggactttt agcttccaga 360
actgcnagaa aataaatttt tcttgtttaa gccacccana gtgtantgtt ttgttatggc 420
agccctaaca aattaaaatt atattttaac agagaatata aaattctaat ataacatttt 480
acagtaaagc attcatggtc ttttttttct tattaataaa tccatcaaaa cagaaagttt 540
tgcaaaattt taacacattt ctctaccact actgtttcta ctctcttaaa actactccgc 600
aaatataaaa atagaaggcc aaaatgcatc attaaaacga tgtttgggga ctaatggcct 660
taaaattcta ttacacttgg aaatatacaa atattcaaag attatctatt gatcacctca 720

<210> 210
<211> 277
<212> DNA
<213> Homo sapien

<400> 210
tccatgtatt tttatacaga atggaacaat atgtatgtat gcaatyktta cattccacca 60
tgaaataaaa cagtataatg aaaataacaa tagattcaaa caatgatatg ctattttttt 120
ttacctatga cattggcaag gtcttcttaa aaaatctgcg aataaccgat gttggagaga 180
tcatggggaa atagccactc aaatgttact catgagagtg tacatatgtg taacttcact 240
tggagggcaa tttggtgata catttaaaaa gttttgg 277

<210> 211
<211> 715
<212> DNA
<213> Homo sapien

<400> 211
gtggtagaaa tactaatttt gcaattacag aaaaaaacaa atgccattca catggttyct 60
aacaaaaagt gtctgaccac ccccaccccc cacccctcaa aaagccctta aataaagagg 120
aagatcaaaa gaaaacaaaa taattcccga gtttcacctc atacatacaa tatagcacag 180
gaagtggcaa agtttaaaat aatgccttta ctgttaggac tagtatgctg tcaaaagcca 240
caatcctttt gttttagtga gttgattttc aatagaaaaa tacaaatgaa catgtgttta 300
agttccaaca tggattgagc acctctgaat ttagtatcaa atgattaatt ttatttttca 360
gatgtcaaat cttagtataa aattttccat tattttaaac ttcacttgaa tctttaaaaa 420
agctgtctaa attgtactat atgagttcag tttaatcttc tgtaaaatgc taacaaattg 480
aactgtcagc agtcttttaa aaaaaaatgg gggctgggtt atttctagaa gaactctcat 540
taagctttga aaatcagaaa tcagagacaa ataacttcag atatagacta gctccacaag 600
caaatttata caattatctg taacagtcta tacatatatg tgtatatata tataccgtaa 660
ccactttcat aggtaaaaaa tattaacttc atgtcacact atgatcagaa gtata 715

<210> 212
<211> 717
<212> DNA
<213> Homo sapien

<400> 212
agcctccccc aatgccttaa aaggtcacag tagatctcag ctctgaacag aaactcaact 60
gaaactcttc ccacaaccca gcagtagata tattaaaacc tacaattttc agggatacaa 120
ccaatattta attcttttga gggttttgtg tttaatacaa ggacacaaac acacgtataa 180
aatgacgatg tcaatactga ttaaacagaa caacaaaata agaagctcaa attatcatca 240
gctattgtgt atatctgaaa taacaataat gcacttgatt ctgaaagaat gattagagtt 300
cctactctga aaatctaatt gtcttgatgt ggcgaagtga gaagaaagga tgatttttct 360

aatgaaaagc atgtatacgg gtagcccttt gcgagattct gtcaaaaccc tgaattttgc 420
attagctgtt ttaccaccca aacgttttta cccgaggatg tgcagcaatg ggaactctca 480
tacactgctt gtgggaatat aaatcagtat aaccactttg gaaaaccatt taacattgtc 540
aactacagct ctacacacaa gtgctataac cacccattcc actccagggt atacacccta 600
aaaatatgaa gtgcccatgt ctacccaaaa ggccgcctaa aaggaatgct tttgagaagg 660
gttaaccttg ttaattagtg gcaaaactgg gaaaacaacc cccaaatggt cccatcc 717

<210> 213
<211> 599
<212> DNA
<213> Homo sapien

<400> 213
cctgttttgg cgaggcagga gggaagcggg atgggagtgg tggttaggcc aagggtagtt 60
caaagcgatt cagcaggatg atgaccacag gagtgctgga gccgggcctt tcagcccccg 120
tgtggatgat gaccggccat ccaggacatg cgagggcttg ggacagtgga cagccagtgc 180
cacacaagga aggaccgatt aaatgacaca gttaaaggaa tttggcctag ggagtgcaag 240
ccagaaaggt ttggtctttt tatatatgta acattggaaa aaaggaacat ctcctgttcc 300
ctgtattaag ttttgacttt agctcagcaa atgcagtgtt tgtggcagta aatatactct 360
gataacaatg ttctttccca ggaatttaga gttttatgat ggttattgaa aatgtttaca 420
tgacaggctg tcaataatat tttttgcctc taaaaataaa acatacataa agtgtacgga 480
ttttaagtat gcaactcact gaacttttca taccgtaata caccacccta gtaaccctcc 540
cccagttcaa gatgtagact gtttccaata acccctcatc ctgttcctta atagccccc 599

<210> 214
<211> 789
<212> DNA
<213> Homo sapien

<400> 214
ccttatgaca aaccttgcta tgccaaggat atgcttcact atcttcatct atcaaaacac 60
tatgcatcat agatatctaa ttttttcatc tcttgcatga agtctttcct gatttccctc 120
tgctgaaatt tctctcttca aatgatgtgt ttccatagta ctttgtccct tttcaaagat 180
atatctcaca tcgcatattt taccacagtt agtttcattt cttaactctc acactagatt 240
acaaagtcaa tatagacaaa gaaatgttca accttatata acctcctctg cctatgctgg 300
taaattgcac ctactatgtg ttcaataaga gcttgtcttt ttcaatatac aaaactttgt 360
aaagattaaa gaccttgtag aaagtcaaga ggaagatagc aatttcactt ctaagaactt 420
accctaagga aacattcatg aagagataca aggggttatg tgcatggatg ttcattatca 480
tattattctt cattatgaag attatgatgg taataatgaa aatgattatc ttgtattggg 540
ccttatttga agtcaagcat tgagaatgta ctttatctgc attatctcac tgagttctcg 600
tagcagccct ataaggtaca gactgttatc taagcttaaa aaaataaagt taatgtccaa 660
ggtcaaacaa ctagtaaaag aagggggcta ggaaatttgg aaccccaaaa ggggcaacct 720
ctcaagggct atgaatcctt accattatta taaggaagct tggcccatgg tggcccaaaa 780
aaaaccggg 789

<210> 215
<211> 765
<212> DNA
<213> Homo sapien

<400> 215

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ggatgtctga gcaggagaga gaccatgtga aggatggact gaatggagac ttgtatcaaa      60
gagtctgagt atcaaagact tgtattagag agggttgttg tagtaatcta gtcagggtat     120
gagaaatggt ttgtattaga gtgtcaggag tagtcgtggc aaaaatatat agatcaggat     180
gagggatggg cctcatctca caccctgact ccagtcaatg gcagtggctc cctggagtac     240
actactatag gaaggatttt gtaaagtttt gtctggcctc agtggagggt gaggtagggg     300
aggagttcta tgaacagtta gtggtgtctg ccatggttga aacaatggag aagggggaca     360
ccttttctgt gcagatgttg cttctggtag atataatcca caatgtaatg ggagaagtac     420
taagaatcag taaattatgg agggtgtaaa agactactga tatttaagcc tgcggaccgg     480
acttagagaa atgatagtta aaggagaaat atccagcaaa caaagatatg acattgaagt     540
ttgggactgc gattagtacc agagatttgg attggaggtg atttgtatag aatggatagg     600
tgattttact cttgcaattt ggattgaggg gtggggaaaa ccagaaaggg gctgggggt      660
aaattagtag aaggtcacct tgaattcatt gtggtccata tcaatgctga aactgattgg     720
ggaacttttt actcttgagt ccctttgtaa gggaacccca gaaag                     765

        <210> 216
        <211> 780
        <212> DNA
        <213> Homo sapien

        <400> 216
cctttttctg tggcaaatgg aggcttttca ctgcctgtag agacaataca gtaagcatag      60
ttaaggggtg ggtcagaaca tgttaagata acttactgta tatgtattcc cttgtatttt     120
gttaaagctg gaacatttga tatttttcca tttatttatg aaaaaatatg aacctatttt     180
catttgtaca aggtaattgt tttttaaagc aagtcacctt agggtggctt taattgtata     240
agtcaagcac atgtaataaa ttcaaaacct gcagttaaca ggatattaga catcaatcct     300
ggtaaccaaa tattaaagat tctctttaaa aaagactgaa catgtttaca ggtttgaatt     360
aggctaaaag gtcttgcagt ggcttttcat ggcccttcaa attggaatgg aactactgta     420
ctttgccatt tttctataaa tcagtacttt ttttttaatt ttgatataca ttgtgtgaaa     480
aaagaaaatg gctaataaac tgtattaaat cttaaacaat gtataaagat tgcacttagc     540
cagttcaaag tgtatactta ttcataatga attataacag ttatatttct gtgttttctt     600
gtaaatgttt cttttccctt aaatacagat aattcatttg tattgcttat tttattatga     660
gctacaacaa aaggacttca ggaacaagta atgtattagt atggttcaag attgttgata     720
ggaactgtct caaaaggatg gtggttattt taaatataaa tagctaatgg gggtggtaaa     780

        <210> 217
        <211> 810
        <212> DNA
        <213> Homo sapien

        <400> 217
cttttaggca gcccggcacc ttcatccata ggcagagaga gaactgggtg ttggagactt      60
attcgagggt ataggaaggg ccctgtgaag ttgatttaac ttttggatgt cagactgtga     120
aagctcctga gaaacttggg gtaataggat cttcttttgg ggatgaaaat ggggaaggcg     180
tgaggaccta gactacttct ccctaggtca gaaaaagaga attacccctt gacaaatatg     240
atacctgcta ggtatttccc agggaaattt agggattggc gtctttccct agcatgtgga     300
ggaattggca gacagcttcc taagggcggg gagcgggggc ccaaggctga cactgcttgc     360
atccacgtga ccttaagtta tggcagatga ctctgaaacg gactgaggcc aatgagaaca     420
gatggatgga gcactcaggt tagacttgtt ccttctccta tgctggagga gagggatggt     480
tctctagaat gttggaggtg agttgagagc tcgcctcttg aatgttgaac agtgtactct     540
tctgaaaact gcatattcac tttatgtggt ttcagaatac tgggctcaat actaacataa     600
gaaagacact tcattgagaa attcttaagc ttacagaaaa cctatctctt tgcacattcc     660
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acataacccc tagcaaaatg caggttcttc atacttctgt ccttttttcca ttggaagaat 720
tgcttaagga aaaattaatt cctatttatt cccacaaaag gttgggcatt gctttgattt 780
taccccatgg gggaatgtgc ctttgaattt 810

<210> 218
<211> 817
<212> DNA
<213> Homo sapien

<400> 218
ctgctccctt atggaggtct cttcattaat aattattgga tagatagaga aggtgagcct 60
gtggcttcca agtaccggct tttgctgaag gtctacatgg gaagaagagc atcatttgat 120
attcagtaga tctgccacac ccaactggct ccatctcctg gaaaacagca ctcactacaa 180
gcaactgtaa tagcacccag caatgaccac gctgctcctg ctggctcttc cgtacaccag 240
taaatgaact caccaatgta ttgcacacat acatttcaca gtagtacaat aaagccctgt 300
atcaggagtg gtaattcaat gacttgactc tatagtgcac tgcagcttta tgtcatacca 360
acattcaaat attcaaatat ccttccaatc catttggaca aaaatacacc atggctgcca 420
agacacatgt atttttcttt cttccatgga ctcctaaact gctcccacaa tcagcagtgt 480
tcttctctca gaaattatct taagcttctc tactcaatgg gaggtacaca cagagacctg 540
agaatatgca gaggccagaa tctctgtctg tgctagagat caactgtact ctgcccacct 600
ggggaacaca tcctctgggt aaagtactcg gaagtaaatt acattccctg gagacagata 660
cgggctttca ctgcagcctg ttagaaaaca caatgtctgt aagttacctc ataggtcaaa 720
gagttttgga ttatattttt cataatgggg ctatggcctt tttaccctgg ttttaataca 780
gaaccacctg cagaaaggac attgaaatta aaagcca 817

<210> 219
<211> 661
<212> DNA
<213> Homo sapien

<400> 219
ggatgctgag gcaggaggat tgagtcctgg agtttcagga tacagtgagc tatgatcatg 60
ccattgcact ccagcctggg caacagagca agattctgtc tctaagaaaa ggaaaaagaa 120
aatgaataga tagtggtatt agatgttaat gacatcagtt gtttttattc tttattcttt 180
cttagaaaca gattagtttt ctcgaattaa agaactacca tttttctttt ttctacaact 240
ttcaagagct ggtgaagaaa tgatgtttag atttaataga tatagtagca gtcatatatt 300
aatagaatag aaactgagac tctaggaaaa agatagacat gagataagga gtaggcatgg 360
tagacatttc tagattattt atgaaaatgt tgtagaattc atttttttt ttggtctgac 420
ctttggcaat ggtgctgagg aagggaaagc cagcccatca ggcaaggctc tgtttctgc 480
attttatccc gtttgattct tctcgttagg attggagcaa ataatttcaa tatgttcttc 540
gctgggttta tcatagtgac ccttcattta aagggacttt taacaattga cttaaagaac 600
actgagatgt gatattttat tgggatttga aagttgccat tgggttttac cttccttaat 660
t 661

<210> 220
<211> 792
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

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      <222> (1)...(792)
      <223> n = A,T,C or G

      <400> 220
cctcttttta ttcctacaaa taattttcaa gtacacacaa ttgggtaaac aaagaaacaa      60
agccaccaag aatgaaaatc agtaggaata acgaacaaga ctcacagatg tcaaacaagt     120
ctgtgggtct tgcagacttc agatgttgga attattagtc gtggcaagng nncaaaacat     180
tagctattac cattatgttt accaactagt gaagtgaact atgagaggat atattaacca     240
cagaagttaa tagaagaata gactcctgaa aatatctgga tgctacaaac taaaatatag     300
tatataatcc ttcatagagt gtcagtgact tcatatttat aattacattt ttgtatatta     360
gcagtgttct agttcttact gccttatctt taagctgann nnaaataaaa ttatattttg     420
ggattcaaaa acacatagct aatgattact atgtggcagt gttacattac tttatcacat     480
atcattaaca taatctgcat gtgttcaaag agatcttcat acttctttgt agctcccact     540
tctttgtcgt ctttgtagct cccacaacat ctagaacagc acaaccgtat atggagaaaa     600
ctcagtctag tattcgttga atgactaatg gaaaatttag ttnataaaca gaactttctt     660
cattgnacaa attatcttgc agaagaataa tggccttagt ttaaaattat catatttacc     720
catntcncca ngttatttta tctcttttgg ctaanaattt tgaaaacggt accttttacc     780
ctttggcatt tt                                                         792

      <210> 221
      <211> 759
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(759)
      <223> n = A,T,C or G

      <400> 221
cttttctgct gctccgggag gtggagtggc ctggcagagg gcacatggct gccacctgct      60
gcaaggaaaa ttctcagtga agactcctca gtatgaagga gataagcctg cacaatcagt     120
cactgataga tgcttagtgg aaaaacttcc aattcccatt tacagctctc agagctagga     180
ttaaaaactc ctggtcataa actcatgtga tgagaagtta tagcacgccc tcattttcta     240
catanccact tgcatttatg gttggctttt gaacttgcta gaagggaaag aagtgcaaat     300
gtgtcctcct tagagctact ctcctcccct tggtgggttt ccagtttgtg cattgtccag     360
atggcccagg agctgacgat caaagggaag aagtcatgtt tgtcatgaga atgctttgct     420
gcatcaggat tcagtgaagc tgttcaccgc ctggagccca tgcagcctca agaggcagga     480
tggagctcag aaaccatcac tgaggttaga aagtgagcac caaagttgag ggaagcccac     540
aggagtgagc cgaagtgctc cctttggatt tccaaagtgg gtgctgctgc ttcttccatc     600
agccttgctt ctgaccccaa tgcgttcctg gtgccttctt cttggcattt tgctgtcggg     660
ggcccaagga aaaaaattcc tgcatggcag tggtgaaaaa agatggctgc ctgctgaaac     720
ctgatttggc ctgggtaagc cttttggagc cccggttaa                           759

      <210> 222
      <211> 699
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
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<222> (1)...(699)
<223> n = A,T,C or G

<400> 222
ccttntnaag agttggcatt aattcttcac taaatgtagg agtagaattt atcaggtaag 60
ccacactgac ctctggnctt nttnncgccc gatgattttt aattagttga atccctttac 120
ttgttatata tgtattcata tattctgttc cttcttggat ttacttttat gattggtgcc 180
tattgaggta tttatttcta gtttgtggta cttcatgtgt ttaggttttc tagacagtgg 240
acatagaaga ttcaagaagc taaatgtagg agaatgtnta atgtaggana ntgaggcnac 300
natatcatca atgaatgact tgaagtttcc tctgttgtaa agaatgatat taccataact 360
gccatagnta atattgatgg tgtaagtcaa ataanaaggc aggaggaaag ggacatccat 420
cactgaacca canatcagag nctcattgaa gcctttgaga agaatccaca aaattttaca 480
ggataattca tttcctgcga tcaccacnag aagagaaact ggttaaacag acaggtattc 540
cagagtccaa aaatttacat ttggtttcng aaccaaagac ctcagctccc aggccacagc 600
aaaagggggc ttatgaattc cctggcaccc agncccaaga cccaanaacc tcatcttgat 660
tggtttnggg cttgggaaac caaaaaacca atgggtggc 699

<210> 223
<211> 598
<212> DNA
<213> Homo sapien

<400> 223
aaaaagagaa agtttcagat ttgccattca aggcttattt atatatatgt gtgtgtatat 60
aaatacatgc acacacttgc atacatatat atttttggct gggggagtgt gagttttgcc 120
tttctaaggg agggaccgcg caggctcctt tgttctgtat tctggcggag atgggtcctg 180
gccttgtgtc actggcttat ccttaaagat catctcccat cctccccagc gccatctgtg 240
tgcagcaacc agaaagggat gaacttggcc ctcttgcggg cctggacaag gtctcttcct 300
taccctttct gttgccagtc agcaacctgt aactcacatt ctcttcccag tgaatccctg 360
ggagcgcctg accctggtgg gctgttcagc ttcctgctgc tggggccagc aatttttgag 420
gatttatctt taggccaggc ttgcctccgt acttatccct gctctcccat ttctctcttg 480
tttgagagag aatgaggaag caaagagtga gaaagaatag gggctgaaga cgccactccc 540
agatggctct ttctatcctg ctcttctgtt gaaacacacg tgctgtgggc ctcaggcg 598

<210> 224
<211> 501
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

<400> 224
aaacctttat gatgacttcc ttatgaatta ctgaacgaac actggaatgg gactcaggta 60
tcctgaggac atctctcaac tctggcctta gttccccctc tgtaaaatta gggtgccaac 120
taaatgatct acaaggtccc ttccagcgcc gccattctgt aattacatca tgtgtaactg 180
tattaaacat acacaagtga ctgccaggca tgggaatgta acttccgagt aaatgctttg 240
gtttgttcag aatacactat gaacttcttt ccaaagacgg gttgtggtaa atagtggata 300
ttttgattat aagaaataga gtttccttga agctttagct ggagatacag caatagtgtg 360

gtgttcctac aaatatcaca gtgtattcaa acatattttt ctatcaaaaa tcatttttgt 420
aaaagctgtg tgtttttatc caacttgtga taataaatgt tctttatttt agaacaaana 480
aaaaaaaaaa aaaaaaaaaa a 501

<210> 225
<211> 295
<212> DNA
<213> Homo sapien

<400> 225
cctgtatagg gctcgtttcc ccacacatgc ctatttctga agaggcttct gtcttatttg 60
aaggccagcc cacacccagc tactttaaca ccaggtttat ggaaaatgtc aggaaaaaaa 120
aaaaaaaaaa cacatgcact cacacaatac ccaaacatca raattagaag ggcataaaac 180
agggggcttt ataggctgaa aaatatctta ratttcaraa cagaatacca atcaaatatt 240
gaaaattcct ttgttcaaaa cacaaagatg ttttgttttt aatgggagtt ttttt 295

<210> 226
<211> 372
<212> DNA
<213> Homo sapien

<400> 226
agattcctgg cttagagcat gcgagcattg aaggaccaat agcaaactta tcagtacttg 60
gaacagaaga acttcggcaa cgagaacact atctcaagca gaagagagat aagttgatgt 120
ccatgagaaa ggatatgagg actaaacaga tacaaaatat ggagcagaaa ggaaaaccca 180
ctggggaggt agaggaaatg acagagaaac cagaaatgac agcagaggag aagcaaacat 240
tactaaagag gagattgctt gcagagaaac tcaaagaaga agttattaat aagtaataat 300
taagaacaat ttaacaaaat ggaagttcaa attgtcttaa aaataaatta tttagtccgt 360
atgaaatgaa at 372

<210> 227
<211> 599
<212> DNA
<213> Homo sapien

<400> 227
ggcccccgtc gcgggagccg cttcgggcct tctgggcatg tctgccatat ggctccaggt 60
ttgtttttct ccccggcact ctgacgggga gggctcccgg catctcctgg catccgggta 120
gaggacgcgg aggatgctga gctgctggcg cactgcagca caactagaga tgtacggatg 180
cccccatctt gatcttacag aatcagaggt acagccgcga gaaagagtca agaacagaca 240
gagtcgcttg aggactcagg agggtgtttg ctgcgttgac aacagactac accctcacag 300
tttgctctgc tcttccaaca ccagtggaag atgatcacat cccagggatc agtgtcgttt 360
agggatgtga ctgtgggctt cactcaagag gagtggcagc atctggaccc tgctcagagg 420
accctgtaca gggatgtgat gctggagaac tacagccacc ttgtctcagt agggtattgc 480
attcctaaac cagaagtgat tctcaagttg gagaaaggcg aggagccatg gatattagag 540
gaaaaatttc caagccagag tcatctggaa ttaattaata ccagtagaaa ctattcaat 599

<210> 228
<211> 343
<212> DNA
<213> Homo sapien

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      <400> 228
aaagtaaatt gtatgaaaaa ttcatttctt caattgcatt agccacattt tgagtattca      60
tgtggctggt agattctgta ttagcacaaa gatatggaac atttccatca ccacagaaag     120
ttctgttgga cagcactgca ttagaatatt ttcatactgc tcttcctcaa ttaatttttg     180
ttgttaatgt tgatgtcttc attggatggg tcataatgtt ccatgaaacc gctcaagtac     240
acaattgtat gttctttgta tcccttacca caaatatctc gctctgctca tttcttttgc     300
agcttcctat aaagtttgtc ttcctcaaaa aaaaaaaaaa aaa                      343

      <210> 229
      <211> 417
      <212> DNA
      <213> Homo sapien

      <400> 229
ctcaagctgc agtccaccgg gtatggttct ggatggttcc cccaagggag caggtatgta      60
ggaggtgaag aaaactgaga tttcaagtat gggagagttt ttactatctc cattcctgga     120
ttaaaagtgc tgaaaaagtc cacagttaaa cattccttta ttcaccctat ggctcccaag     180
aaaagcattc ttcctctgga gtactggtgt actaagggga caatacacca aatttgttga     240
gtttacaatc aagtctacta aggttggact tccttatcag tttggcagag tcccagggca     300
gaataatcat ccatctacag gtctctgttt cctctccctc cgcagcagtg gagagcatcc     360
cagtgtttgg ggcactgtgt tcctcttcgt ccctgcacca gaccctggaa gccttgg        417

      <210> 230
      <211> 462
      <212> DNA
      <213> Homo sapien

      <400> 230
gaaataccag aagagaaagt ttcattgtgc aaatctaact tcatggcctc gctggctgta      60
ttccttatat gatgctgaga ccttaatgga cagaatcaag aaacagctac gtgaatggga     120
cgaaaatcta aaagatgatt ctcttccttc aaatccaata gatttttctt acagagtagc     180
tgcttgtctt cctattgatg atgtattgag aattcagctc cttaaaattg gcagtgctat     240
ccagcgactt cgctgtgaat tagacattat gaataaatgt acttcccttt gctgtaaaca     300
atgtcaagaa acagaaataa caaccaaaaa tgaaatattc agtttatcct tatgtgggcc     360
gatggcagct tatgtgaatc ctcatggata tgtgcatgag acacttactg tgtataaggc     420
ttgcaacttg aatctgatag gccggccttc tacagaacac ag                        462

      <210> 231
      <211> 328
      <212> DNA
      <213> Homo sapien

      <400> 231
ctgtgggttt tcctaaacgc ccctcatctg gttgaagccc tagtgtttct ttctcacatc      60
agaggcaaat gcattggggt gggtctggtt tggacaataa atttcctctg gtttggacca     120
agaaaaacag agttctttga ccgctaacat atatgtaaaa agaaagtttg taaaaacaag     180
agttaaaatg cttctaacag tgtggtcatc actgcacagg acactggaat tggcattcgg     240
ggttgtgtct gtccatgtgg tttcgttgta tgtcatgtgc tctcagctca gacagagaca     300
tccaattgac ttctgacttg gggcattt                                        328
```

<210> 232
<211> 595
<212> DNA
<213> Homo sapien

<400> 232
cgccaatttt agcaaataag agattgtaaa agaagcagat tgaatgaaga atttttagct 60
gtgcagatag gtgatgttgg gatggaaaat gctaatcaac taccctttct tttatcaagt 120
aattaaaata aatctacata aagaaccaaa aaggctgttt tataaaagtg aaatatccag 180
tatttcagag ggccaggcaa gagcacttca gatgaggcag tcaaaatcat ttttttccag 240
tgaggataga ccacaagtgg gtggtgagac cattgaaagc ctttatcaac tgaagagtcc 300
atttaacagc ataatttgtg ggaagactgg aatagggctg aataaatgtg tttgaatctc 360
taattttata ctttcttttc ctgaggaact tgatttttct gtccctggat cgccttgtca 420
taattgggtc tgttcctttt actaccactc ttgagtccat atatgaaatc attaaagttg 480
gatgatcagt tttttataaa aatatatatt tttgtccaag aaaaaaaaaa gcatacatat 540
gtgattatgg ctaaatcaaa ggtaactgga atgtatatac ttttgctaat gttcc 595

<210> 233
<211> 600
<212> DNA
<213> Homo sapien

<400> 233
atgaaggtaa actctaaaat cttcataggt caacaaagaa aatttatcct tcacacttat 60
ttctagaaag cagcagggct tatttcctag attgcttaca atgaagctag aatatctgcg 120
ataactgtag agtttcaaaa aggatcccta gggctacttc tacgttctcc ttaccagttg 180
agcactctcc ataatttcca gacgggtcat gggggagaat gatagaaatg agcgtgggaa 240
gaaagacaat gaaattagaa atgggtgaga cacatggtgg tagaatgcta agagcaggga 300
tcaggacaat caaccaggtg tctaggaagg gtcaagtcac cagtgtcatc tgctgaccaa 360
tgttaggaag aaataaactc aaaggaaaca ccacattttt ccaattaaac tcaaatctat 420
tgacttgtgg tggttctttg atgttgtggg gactgctata acagaaacca attggatttt 480
caagggcaag aaactttgcc actgaataag atgatgtcat ccttcctgat aacaaatagg 540
aatgggtggt cagctctaaa cagcgtggac tgagggagtt gcttttctac aatattactt 600

<210> 234
<211> 500
<212> DNA
<213> Homo sapien

<400> 234
aaattcctaa ttcttttact atcttctcaa cttttcccaa agataaaata aatttcacat 60
aatttcatgg aggggaaatg gtagttgtaa aaaactacct caagtagcaa tcaccgctgg 120
cagtgttttc tcactttctg ttctgcaatt gcaatcacac ttccaaaaag aaaagcaaat 180
gtttgctaaa ccatagacag acaacctctt tgtgactggt attataaggt ttataatgaa 240
aacttatcaa atataaaagg tgctccctct tgaaaatgtg tattttattt gaagttttga 300
gtaagaggtg agtgtttggc aattttcaac actcccctca aaaatctccc aaagttgcaa 360
aaaagtcagt ttagtaaaat tccaagcact taaatgcttc attgagggcc agttgatata 420
cgcaatgcac taatgtgtaa aaattaaccg aatgcaacta ttttataatg gagagctctt 480
accttttcct tccagttttt 500

<210> 235

```
      <211> 159
      <212> DNA
      <213> Homo sapien

      <400> 235
aaaatttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata      60
caactttcag gccacagttt tgaaggtctg aagtattaag ttggtttgat gaattagtcg     120
gttggcactt acgaacacat ttattgcctt gccatcttt                            159

      <210> 236
      <211> 254
      <212> DNA
      <213> Homo sapien

      <400> 236
aaataagtga ataagcgata tttattatct gcaaggtttt tttgtgtgtg tttttgtttt      60
tattttcaat atgcaagtta ggcttaattt ttttatctaa tgatcatcat gaaatgaata     120
agagggctta agaatttgkc catttgcatt cggaaaagaa tgaccagcaa aaggtttact     180
aatacctctc cctttgggga tttaatgtct ggtgctgccg cctgagtytc aagaattaaa     240
gctgcaagag gact                                                       254

      <210> 237
      <211> 591
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(591)
      <223> n = A,T,C or G

      <400> 237
tttttttttt tttttttttt tttttttcta atttttactt tttctcaagt ttaatgtara      60
catacaaraa aacatcaagc aatgtttatt gkgcaattcc aatcattatt tgcaraatct     120
tggtttaaag tcagtytttta tagccatttc aactgcttgg tttaaacaaa aagcaacaat    180
ctggttatyt acctataaat ttcatggtat ttytttaaac actgaagtac taaaagcact     240
gatgatttgt attataattt ttaaaatatt taaaacctac acagatttca taratcattc     300
cttttataaa ataatcaaaa taatttgatt atytggaaaa aaaaattctt gaaacaragc     360
cctttccagg tatyttcaat ctctgtaaaa ccccaaaccc caaacagagt aratgatgaa     420
ataaggattt ctcagttgcc caagactgtc tgaaatttaa ggttgaaaaa tggactggcg     480
tttttcatgt ttcctgngaa ttcanagctt acaggtggca tcaaaactca aatctctggg     540
atggctttac atggctttca ctttgatttg tttcattttc atttgcttct t              591

      <210> 238
      <211> 252
      <212> DNA
      <213> Homo sapien

      <400> 238
aaatggcttt tgccacatac atagatcttc atgatgtgtg agtgtaattc catgtggata      60
tcagttacca aacattacaa aaaattttat ggcccaaaat gaccaacgaa attgttacaa     120
```

```
tagaatttat ccaattttga tctttttata ttcttctacc acacctggaa acagaccaat     180
agacattttg gggttttata ataggaattt gtataaagca ttactctttt tcaataaatt     240
gtttttaat tt                                                          252

      <210> 239
      <211> 153
      <212> DNA
      <213> Homo sapien

      <400> 239
ccacaataaa gtttacttgt aaaattttag aggccattac tccaattatg ttgcacgtac      60
actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgac     120
ccggagtctc tggtgtaccc tcttaccagt cag                                  153

      <210> 240
      <211> 382
      <212> DNA
      <213> Homo sapien

      <400> 240
aaaaaaacca tctaaaagtg gtttttaat atatatattt tttccaaagg aagaaatttc      60
ttgcttttac tcagggaaaa aaaaaaatta aggtacattt gagtagaatg atttcatcta     120
aaagagttct ttcaggagac atctgtgatt cactgcattg tttttatttt cttcttttc      180
ctcttctttt ccaacatttc taccattttc ctcttcttgg ttgatatcag gccactttct     240
tttgttgctt tcttactgtc acctgttaaa ccgcgtttct ttgtgttagg ttttgaccgc     300
ttttcttctt tgtgcactgt gtcaccaggc tcctttttgc caattttgga ctgttcttta     360
cttacaggag aaggctctgc ag                                              382

      <210> 241
      <211> 400
      <212> DNA
      <213> Homo sapien

      <400> 241
ggcatgagcc accgcgcccg gccctatctt ttacttttat aaatagagat gaagtttcac      60
catgttgccc aggctggtat cgagctcctg ggctcaagcg atccccccaac cttggccttc   120
caaagtgctg ggattacaag cgcgagccac cgaaattatt cttaactagc aagactaggc     180
tctgacatca catccttata gttacatccc tttaagcagg gttcagccac tcactctgca     240
cctggagaac ttgatggtta tccctcgaag tgacagtcct gcaaatgaca aaaacactcc     300
aaatctatta ggttggtgca aaagtaatta cgctttttgc cactgaaagt aagtcccaca     360
ggaccctgag ggaaatggga gggtggggta tacatagcag                           400

      <210> 242
      <211> 75
      <212> DNA
      <213> Homo sapien

      <400> 242
actcacatat gcagacctga cactcaagag tggctagcta cacagagtcc atctaatttt      60
tgcaacttcc tgtgg                                                       75
```

```
      <210> 243
      <211> 192
      <212> DNA
      <213> Homo sapien

      <400> 243
gctccacatt tgtagcgaac actttgactc caaagagaag gaggaagaca aagacaagaa      60
ggaaaagaaa gacaaggaca agaaggaagc ccctgctgac atgggagcac atcagggagt     120
ggctgttctg gggattgccc ttattgctat gggggaggag attggtgcag agatggcatt     180
acgaaccttt gg                                                         192

      <210> 244
      <211> 616
      <212> DNA
      <213> Homo sapien

      <400> 244
aattttatag caatatactg accattctaa aaataacaaa atacatgttg ctctcaacta      60
catagttaaa aaaggtagta aattctctta cccaaaatag aggaggggtg ggctagtgag     120
ctgctcaaac atttgtaaca aataaaaatg tatctatata catataatga tcatgttttc     180
atagcctaaa atcaccatac aaaatctaat aataaaattg tgtcgtgttc aggagttggg     240
aagccaacac attaaattaa caaagtattt ttggtatatg taaataatgg gatagaatct     300
ctcgaatcag gattgtccca gaagttctaa ggcagatgtc aatgacatgc acattgtcca     360
tgttcagtaa ttttcaaaga ctagaataaa ctatgtaaac tattcaatac aattcaatat     420
tacttaactg ctaaaaagta cttcaagatc ttgcactgcc ttgagtgagt ataatcaaat     480
tagtaattgg aaaatagctg taatagcagg cactgaagaa ttctgacaaa taccaaataa     540
ctgtttgttt ttaccaaata aactggtaag atgatatcac aaagggtttt aagttatttt     600
gctatacaag gttttt                                                     616

      <210> 245
      <211> 165
      <212> DNA
      <213> Homo sapien

      <400> 245
ttggaacagt ggattaaaat ccagaagggg aggggtcatg aagaagaaac caggggagta      60
atttcttacc aaacattacc aagaaatatg ccaagtcaca gagcccagat tatggcccgc     120
taccctgaag gttatagaac actcccaaga aacagcaaga caagg                     165

      <210> 246
      <211> 229
      <212> DNA
      <213> Homo sapien

      <400> 246
tgtactggat ccctccaggt gggggcgact ctcacctgac tattacaata gcctcctaag      60
tggtttccct acttgcaacc ttgcccgtat aatatctatc ctccacacag caggcagggc     120
gatcctttaa gaatagaagt tagatcatga aaatgctctg ctctgatccc tgcaaaagct     180
cgccacctcc ttacagtcac cgctgaactc gtagcagagg ttcaggagg                 229

      <210> 247
      <211> 338
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(338)
      <223> n = A,T,C or G

      <400> 247
ggaaaccgtg tgtacttatc ctggatgatg ccaccagtgc cctggatgca aacagccagt      60
tacaggngga gcagctcctg tacgaaagcc ctgagcggta ctcccgctca gtgcttctca     120
tcacccagca cctcagcctg gtggagcagg ctgaccacat cctctttctg gaaggaggcg     180
ctatccggga gggggaaccc caccancagc tcatggagaa aaaggggtgc tactgggcca     240
tggngcaggc tcctgcagat gctccagaat gaaagccttc tcagacctgc gcactccatc     300
tccctccctt ttcttctctc tgtggtggag aaccacag                             338

      <210> 248
      <211> 177
      <212> DNA
      <213> Homo sapien

      <400> 248
tgaaaacaaa tgaattctca actcctacgg ttcatgtaga gtttagagaa aatttccatc      60
attgtcatca ttgaactgtg aacctgggaa gccagatcat gattaacact gacatcaagt     120
ttcaagttgc agatcaatgc acccagtgtt cagatgaggc aaacttctcc gtgacaa        177

      <210> 249
      <211> 263
      <212> DNA
      <213> Homo sapien

      <400> 249
aaagtaatga ctttattaat aaatatacat ccatatgatg atgtagatac aaatcatgaa      60
cactactcca ttcccataca cataattgca cacgagtagc tcaagttcat ggacataaaa     120
acatacacag tatctattca gactttttac agcagaggac agcgtgctta ttatcagtta     180
attggtaatt attttctcca aaattacctg tggaaaaaag aaattctgaa aacttaaaag     240
aatcaaagtg atctgattac ttt                                             263

      <210> 250
      <211> 333
      <212> DNA
      <213> Homo sapien

      <400> 250
aaaaaaaaca acagcgtaaa tattagccca caagagcagt cctaaacaat cacaattaca      60
ctgtactacc caagaagact gtttattgtg aagcatttac ctttcaaaaa atcattacat     120
ttctatttct tggtggagca gcacattgtg gagtgtgatt cttaattctt cattgagttt     180
gtcaatagga cattgatgct ggataggttg tcttttgttt ttatgcctca gaccatcttg     240
tgagattgtt tgcctatctc ataatacagt tttatgcaga aaggttgaaa ctatgtaaat     300
ggtttttatg gaaattatca gttacaatat ttt                                  333
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<210> 251
<211> 384
<212> DNA
<213> Homo sapien

<400> 251
aaaccatttg tacaaaactt ctataaattt ttctctctct ttctctctta tgtacaaaaa       60
tatcttaata tatccccgaa ctggttagga tagatacaaa tagatttttt ataataaaaa      120
attcacaaaa gattggaagc attctataat gaaaatggta gaaaagacag tgtgagggaa      180
gccatggggt ttgggaatcg ggccctggag gagaagcaga gtttcaaagg gctgagaata      240
gcatagtttc actgtaaacc aatgtctaca gcttattggg gtgggggcta ctgagacgaa      300
agacaccaac tcgtttctag agggctaaga actgcacttt aagaaagggc ggggaggtga      360
agggacccga gcaagaactt tcag                                             384

<210> 252
<211> 211
<212> DNA
<213> Homo sapien

<400> 252
aaagcagtct gaaaatggga catctgtaga gaaattcatt tccttcttct cctccggatg       60
tggaatggaa gctttgaggg aaggaaaagt aggaaaagag cgggatggga tgggatggga      120
tgggatggga tgggatagga agagaggctg ggaatgggc agagaagggg gtgctgagtg       180
tgctgtgaga tagagcaaga tcacaagaag g                                     211

<210> 253
<211> 135
<212> DNA
<213> Homo sapien

<400> 253
aaaaattgtt tcttgacaag ctgacttggc acttaagtgc actttttat gaagaaaaag        60
tacaatgaac tgcttttcct caagcaataa ttgtttccaa cttgtctggg aattgtgtgt      120
ctggtaactg gaagg                                                       135

<210> 254
<211> 361
<212> DNA
<213> Homo sapien

<400> 254
cctgtagccc ctgctacacg ggaggctgaa gtgggaggat cacttgaacc aatgagggtg       60
aggttacagt gagcccagat catgccacta ctctacaggc tgggtgataa gagtgagacc      120
ctgtatcaaa aaaaagacaa ggaaaaaaaa aactgggccg tttgtttttg cagaatgtct      180
ctcaatttgg actttttggg caggaataca atacaagtga tacaaatgct tctttaacat      240
tagaacctgt ataaaattac cattacagac cttgctattt tacttatagg taaatcactg      300
tttaccaagg taagtctttt gggaatttcc aaaaatgaag tccatggaca gttaaaaact      360
g                                                                      361

<210> 255
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      <211> 331
      <212> DNA
      <213> Homo sapien

      <400> 255
aaaaaaataa ataatccacc aacgtgattg accttggcga gatcatgttt ctagtctata      60
cctcagtttc cccatctgta aagtgaggat aatgtcccac cccatgtaac tgtggtgagg     120
accaactgca acactgtgcc tgcgagtctc cttggaaaag tgtaaggttc tacacaaatg     180
gaaagtgatc tgatcacact cagtgtcccc agcccagcct ttcagtgccc tggccctggg     240
gtgggggaca atactctcct cacccccttc actagtcttc atgaatagca aggaggccat     300
aacataattt ggtctaaacc ccttcctttt t                                    331

      <210> 256
      <211> 186
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(186)
      <223> n = A,T,C or G

      <400> 256
cctttgggcc cttgcacttt gacctgcaat ggggccacac cagccttgct tgtgtccacc      60
tggaaggact gagggaggtt ggcacgaacc atgcctgggc tcaggccggg cccanagcac     120
ttgaccttgg acgcatctgt cacatcatgc acagggacct tgaaaggact gcctggcact     180
tgatgg                                                                186

      <210> 257
      <211> 255
      <212> DNA
      <213> Homo sapien

      <400> 257
ctggggtccg tcaccgacct ttggggaact gggctacggg gaccacaagc ccaagtcttc      60
cactgcagcc caggaggtaa agactctgga tggcattttc tcagagcagg tcgccatggg     120
ctactcacac tccttggtga tagcaagaga tgaaagtgag actgagaaag agaagatcaa     180
gaaactgcca gaatacaacc cccgaaccct ctgatgctcc cagagactcc tccgactcca     240
cacctctcgc ggcag                                                      255

      <210> 258
      <211> 604
      <212> DNA
      <213> Homo sapien

      <400> 258
ctgaatttgc aatggagttt ggtggtgcaa tcggtattga ttagtttggc atagacagat      60
gcagcagttt agagcaaaat cgagaaaatg attttttttt tcctccttga tttcctggca     120
gaagatatct tactttttca gcaaactttt cttttaacac taaagcagcc tagggcaatg     180
ccagatactt agagcttttc tcttgattat aagtagaaat gggggtgtct gggctagagg     240
tggagggtgg atgtgctgtc gtcacagtct agctggcagc aagcaaggca aaagcagaga     300
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ctgctctaga agcggttcca agcagcagag acgtcaggaa aggcacttct tagtaccaac 360
ctctatgctt taatagttgc ttgttaagct gcttcatggg ttgagacaaa ctaccagcac 420
ttcaaagagc tcagttctct gctcaactct cttctctagt tacattattt tttttccttc 480
aggagactga ggcaggaaaa tcgcttgaac tcaggaggtc gaggccgcag tgagccaaga 540
tcacaccacc gcactccagc ctgggccttg caaagtgcta ggattacagg aatgagccac 600
cagg 604

<210> 259
<211> 429
<212> DNA
<213> Homo sapien

<400> 259
aaaaatgtct gtatcgagat cttccagttt gaagtcttcc tcctctgtgt cttccccaagg 60
ctctgtggca agctccactg gttctcccgc ttccatcaga accactgact tccacaatcc 120
tggctatccc aagtacctgg gcaccccccca cctggaactg tacttgagtg actcacttag 180
aaacttgaac aaagagcggc aattccactt cgctggtatc aggtcccggc tcaaccacat 240
gctggctatg ctgtcaagga gaacactctt tactgaaaac caccttggcc ttcattctgg 300
caatttcagc agagttaatt tgcttgctgt tagagatgta gcactttatc cttcctatca 360
gtaactgctc cgtgttcaga ctcctggttt cttccaggct tacagtggac atcatcagct 420
tcctgcttt 429

<210> 260
<211> 385
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 260
ctgcaacaca tgcagcacca gtctcagcct tctcctcggc agcactcccc tgtcgcctct 60
cagataacat cccccatccc tgccatcggg agcccccagc cagcctctca gcagcaccag 120
tcgcaaatac agtctcagac acagactcaa gtattatcgc aggtcagtat tttctgaana 180
cgcatatggc agacggattt gcgtatacca aggagagtgg cataggaggg aaaagcatat 240
gtggctgaaa cctgtaagtt ggtgttggtt atgcagaaat gtgtaacaga tcaaacggtc 300
ctctcaagtg tctattanat aggcaataag aactgcagtg tagctgagta acatctttta 360
gctgactata aatcactttg ttttt 385

<210> 261
<211> 230
<212> DNA
<213> Homo sapien

<400> 261
ctgtactgga tccctccagg tgggggcgac tctcacctga ctattacaat agcctcctaa 60
gtggtttccc tacttgcaac cttgcccgta taatatctat cctccacaca gcaggcaggg 120
cgatccttta agaatagaag ttagatcatg aaaatgctct gctctgatcc ctgcaaaagc 180
tcgccacctc cttacagtca ccgctgaact cgtagcagag gttcaggagg 230

<210> 262
<211> 198
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(198)
<223> n = A,T,C or G

<400> 262
atgttaagta aacatgaaat ctatataaca gaacaaaaat tcactcttat gtcaatgtca 60
gcgtgttaat gtagatctat ttactganac agactctgta gtggcagaga gtggccttgt 120
taagccagga ccctgttctg caggctgtgg gtagaagcta ggaagtccct ggagtttcac 180
ccagcttttc catgaatg 198

<210> 263
<211> 157
<212> DNA
<213> Homo sapien

<400> 263
aaaatatatt tctaaacaga atgggccgac tcagtcacag taactgttga tctccatagt 60
agagcaaccc acaaagacag aactgatttt tttcccataa tcaggggtga aaaatataca 120
acttgtttct gaaccaaaac cacaatttct gcagttt 157

<210> 264
<211> 290
<212> DNA
<213> Homo sapien

<400> 264
ctggctactc caagaccctg gcatgaggct gaggacaact tacaagggct tcaccgaagc 60
agtggacctt tattttgacc acctgatgtc cagggtggtg ccactccagt acaagcgtgg 120
gggacctatc attgccgtgc aggtggagaa tgaatatggt tcctataata aagaccccgc 180
atacatgccc tacgtcaaga aggcactgga ggaccgtggc attgtggaac tgctcctgac 240
ttcagacaac aaggatgggc tgagcaaggg gattgtccag ggagtcttgg 290

<210> 265
<211> 234
<212> DNA
<213> Homo sapien

<400> 265
aaaaaaagga aaggaaagag aggaaaagaa aataaaataa gacgatttat tgcttctcct 60
cagcatcctc cttggtctcc tccttcaccg agagagcttc tagcttttcc gccacttttt 120
cggcatgatc atttttgcct gatcctttct tttctctctc ttcgatctct ttcctgcatt 180
cttcaaactt tgttttgaat ttctgtgcat tctcagcatt caggaagcgg atgg 234

<210> 266

```
      <211> 335
      <212> DNA
      <213> Homo sapien

      <400> 266
gtcctcatca tcccagtttg aggcagtgct ggagtgggga aggccgtctt agaccataga      60
ggttggaaga cgctgagaga tcatccagcc cagcccсttg atgttacaga gcagaagaca     120
gatgcccaaa caggagaagg cacttgccca cggtcatacg gcaggttgcc acaaaaccaa     180
gatggcagcc cttcctcagc gtgcctcact gccactccca gagccaggga gccccataaa     240
acccacatca tgtcttaaga gtatatctgg ctccttgacc agcaatcggc cctgggagcc     300
accaggtggg aaaagcgcct ctgccagagt ccagg                                335

      <210> 267
      <211> 619
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(619)
      <223> n = A,T,C or G

      <400> 267
tggagctctg acgaagggat cggggaggtg ctggagaagg aagactgcat gcaggccctg      60
agcggccana tcttcatggg catggngtcc tcccagtacc aggcccggct ggacatcgng     120
cgcctcattg atgggcttgt caacgcctgc atccgctttg tctacttctc tttggaggat     180
gagctcaaaa gcaaggtgtt tgcanaaaaa atgggcctgg agacaggctg gaactgccac     240
atctccctca cacccaatgg tgacatgcct ggctccgaga tcccccсctc cagccccagc     300
cacgcaggct ccctgcatga tgacctgaat caggtgtccc gagatgatgc anaagggctc     360
ctcctcatgg aggaggaggg ccactcggac ctcatcagct tccagcctac ggacagcgac     420
atccccagct tcctggagga ctccaaccgg gccaagctgc cccggggtat ccaccaagtg     480
cggccccacc tgcagaacat tgacaacgtg cccctgctag tgcccctttt caccgactgc     540
accccanaga ccatgtgtga gatgataaag atcatgcaan agtacgggga ggtgacctgc     600
tgcctgggca nctctgcca                                                  619

      <210> 268
      <211> 147
      <212> DNA
      <213> Homo sapien

      <400> 268
cctataaccc agacaccagc atggacaaaa ctcagttata ctgaattcag agacaaaatt      60
cagtgacact cttctaccac ttatttaggg ttctacagca tttcactgag cagacttagt     120
tttttgtttt tgttttacaa accttt                                          147

      <210> 269
      <211> 325
      <212> DNA
      <213> Homo sapien

      <400> 269
```

ctgagctgta ggaatgggtt cttggtacac aagatagtat tgttgagcta gttttcgagc 60
tctgtgcaca agcactctgt aatcggggcc catgccactg tacaccaaac ctatatgctt 120
ggtaattggt tctactttgt gtacacttcg ctcatcatac agaatggatt tctgtttttt 180
ctcagttgct aataccacac catttgcagc tttaattccc acggacgggg ctcctccagc 240
tacagcagcc aaagcatatt caatctggac aagtttacca gacgggctga atgtagtcag 300
cgaaaagctg tacccgcgct ccgcc 325

<210> 270
<211> 428
<212> DNA
<213> Homo sapien

<400> 270
aaacatatgg taaattaccg agtgacacct ctgggctaga gacctctttt gaggggagtt 60
tgcaaactac ggattcaatt tctttaacag ttatgaagtt ctttaaagaa cctgtttggt 120
attggggggt tgtggtcacc tgtgcttttc tgagatttgg cccctacatc taagttgttg 180
aatgcatgtg tgtagagttg tttatggtgc ttccctttct tcttagaagg gtctatagta 240
atatcccctg ccttatccct agtagtacta atttgtgttt tcttacttct tgacaggcaa 300
acacatcaga gcataagtgg ttcctaatgc caagctgacc tcccttgatc tctgtcttct 360
acaggatatt gacatgggac ttctttatta ccttttcagt tcactgatac cttcaaatag 420
ctttattt 428

<210> 271
<211> 206
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(206)
<223> n = A,T,C or G

<400> 271
cgtcccggag cccacggngg ncatggctgg canagcgctc tgcatgctgg ggctggtcct 60
ggccttgctg tcctccagct ctgctgagga gtacgtgggc ctgtctgcaa accagtgngc 120
cgtgccagcc aaggacaggg tggactgcgg ctacccccat gtcaccccca aggagtgcan 180
caaccggggc tgctgctttg actcca 206

<210> 272
<211> 83
<212> DNA
<213> Homo sapien

<400> 272
ctggcttccc tgagaactca acaatgcctt ttcctgaggg ccttcctcga tcatccacaa 60
tgactacagc cctctctacc tgg 83

<210> 273
<211> 472
<212> DNA
<213> Homo sapien

```
      <400> 273
ctggagaagg tgtgcagggg aaaccctgct gatgtcaccg aggccaggtt gtctttctac      60
tcgggacact cttcctttgg gatgtactgc atggtgttct tggcgctgta tgtgcaggca     120
cgactctgtt ggaagtgggc acggctgctg cgacccacag tccagttctt cctggtggcc     180
tttgccctct acgtgggcta cacccgcgtg tctgattaca aacaccactg gagcgatgtc     240
cttgttggcc tcctgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac     300
ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc     360
agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg atacccgcac     420
tcctcctcct gaggccggac cccgcccagg cagggagctg ctgtgagtcc ag             472

      <210> 274
      <211> 205
      <212> DNA
      <213> Homo sapien

      <400> 274
ccaggcggcc cgaggactta cggtcggcac ttctctgttc tcccgtgtca gcgtgtggtg      60
tcgcctgcat gggtcgtacc tggatggtgt gtccaccatc gacacggagg ggctggattt     120
gtttctcagg caatcctgta ttttaatttt agatgtattt cctgaagcat atttttcata     180
gaatgtagcg tgtaaatagc ttttt                                           205

      <210> 275
      <211> 308
      <212> DNA
      <213> Homo sapien

      <400> 275
ctcctcgccc tccccaccga catcatgctc cagttccagc ttggatttac actgggcaac      60
gtggttggaa tgtatctggc tcagaactat gatataccaa acctggctaa aaaacttgaa     120
gaaattaaaa aggacttgga tgccaagaag aaacccccta gtgcatgaga ctgcctccag     180
cactgccttc aggatatact gattctactg ctcttgaggg cctcgtttac tatctgaacc     240
aaaagctttt gttttcgtct ccagcctcag cacttctctt ctttgctaga ccctgtgttt     300
tttgcttt                                                              308

      <210> 276
      <211> 201
      <212> DNA
      <213> Homo sapien

      <400> 276
aaattaactt tttcttgcaa aatattcatt tcatttttc caagaaaatc ttataaaggc       60
aaaaataaaa ttttattttg gcaaatgtca tgaagtcgat actggcagca tatggagtta     120
gttaaaaata gacaacaact gctagatata ttcaaaattc tatttttttt tctgagcata     180
gtcaaagaga aattttcatt t                                               201

      <210> 277
      <211> 520
      <212> DNA
      <213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(520)
<223> n = A,T,C or G

<400> 277
aaaaaaaaag tattcagcac catttgctca tnggtctttc agagtttgtt cttaaagttt 60
ctggaacttt cctgtctgta aagtaacagg aattactgag ctacattgga aagcctctct 120
gggacaggca gtggggagtt aagcagtcat cataaaggaa tcagtgtaca ttcagcatgg 180
tgacttgact acacaacaat cccttcccct ctactgtagc tcaagagaga catgcttcta 240
accactgagg tatgaggagt ctcagactgt tatttgctgt tagaattggt cttcccagct 300
aataacagta catctctggc acagatgcta ttggtcctta atgtcctgtg attttaggaa 360
atagtttgga tttagttcaa tttattcaga aaccaaacgt gtttaattag cttcactact 420
ctggcagagt aagggtatgc tggtttagta tctttataaa atatatataa tgtataggta 480
aatcatagtc ttaaatcata cctaaaatac tgtatcattt                       520

<210> 278
<211> 264
<212> DNA
<213> Homo sapien

<400> 278
cgcgccgggc ggaactttcc agaacgctcg gtgagaggcg gaggagcggt aactaccccg 60
gctgcgcaca gctcggcgct ccttcccgct ccctcacaca ccggcctcag cccgcaccgg 120
cagtagaaga tggtgaaaga aacaacttac tacgatgttt tggggtcaa acccaatgct 180
actcaggaag aattgaaaaa ggcttatagg aaactggcct tgaagtacca tcctgataag 240
aacccaaatg aaggagagaa gttt                                        264

<210> 279
<211> 414
<212> DNA
<213> Homo sapien

<400> 279
aaacatacaa taatttttat tatggaaatt aatctttaca tacaaaatca gctacgtaat 60
tttacttaca aaacaataaa aactgttctt tactgtggca acaaaagaag cattttgaca 120
aatgaaaaaa attaatgcaa acaaattaaa acaatgcttt tctttttact tgcttcactg 180
tctcttctat ttattttcta tgatcatttg acacaaacat ggattacttt gatatctact 240
gaaacataaa tgataaggtt cttaaaggtt gaattaaaag tctgggtgtt caatatttta 300
gaagctgaat aaacaaaacg aaattggggt ttgtgattac agaggattta tcattttttc 360
cctttgtcca tatgaaaata tataatagaa aattacccac gggaaaacat tttt       414

<210> 280
<211> 262
<212> DNA
<213> Homo sapien

<400> 280
ccaccatgcc tggcctgctt caatttttg atgccacttt gtaaacggca cttaattatg 60
gaaaatagga aaaagcaaaa ctaaaataag gaagaggata tatatataac ttttcacaat 120
ctcttttctg atccccttta gatgcccagt caaccaggac cacacacaga tttcatttta 180
```

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tttgtagagt atatgaaaag atttaatagt ctcatgcatt ttattttacg tatactgatt     240
tctacgtttt gactgactat tt                                              262

      <210> 281
      <211> 349
      <212> DNA
      <213> Homo sapien

      <400> 281
ctgtgacccg ggtgcatcag tggatatagt tgtgtctccc catgggggtt taacagtctc      60
tgcccaagac cgttttctga taatggctgc agaaatggaa cagtcatctg gcacaggccc     120
agcagaatta actcagtttt ggaaagaagt tcccagaaac aaagtgatgg aacataggtt     180
aagatgccat actgttgaaa gcagtaaacc aaacactctt acgttaaaag acaatgcttt     240
caatatgtca gataaaacca gtgaagatat atgtctacaa ctcagtcgtt tactagaaag     300
caataggaag cttgaagacc aagttcagcg ttgtatctgg ttccagcag                 349

      <210> 282
      <211> 381
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(381)
      <223> n = A,T,C or G

      <400> 282
aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg      60
ggaaacaaag tttcaaaaca aagaaaagtt gagtaaaagg tgccccctct atggctcatc     120
tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttcccact     180
cactttgcaa ggacccactc attctgcana aagacctaca agtctttctg gtctcaattg     240
caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt     300
gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt     360
atttttattt cagatgtatt t                                               381

      <210> 283
      <211> 543
      <212> DNA
      <213> Homo sapien

      <400> 283
aatatagctc ctccctaccc ccaacaatgg accctgccca ttgcctccca gttccttgat      60
cttcctaggt tccacaactc tctttttcct tttagtttta ttccctccag ccaaacctct     120
cttattcaat attttgagcc aatgggggag ttatgtagat ttttttccct acacattagc     180
tggccccttt tatgaccaat gactcataag gcaagatgtg tggtggcatc ttcggacagg     240
cagcaggctt taatagggca gcctgggttg gtggaggcaa gcaaagctaa ttggcatgcg     300
tgggaatcaa accccaggcc ctgggctcat tagcccatgg tcaaaacaac tgagccagag     360
gaggtaataa tttgcccaag aatatcagta gttcctttat tagaagaaaa tggctgatat     420
ggaagttggg gaatctgaat tgccagagaa tcttgggaag agtaataagc tcttagtctc     480
aacaaaaagt gtttttttcat ctcagcgcgt aaagggtgct atatgggaac aaagaagtat     540
ttt                                                                   543
```

```
        <210> 284
        <211> 147
        <212> DNA
        <213> Homo sapien

        <400> 284
aaactggtat tttatctttg attctccttc agccctcacc cctggttctc atctttcttg      60
atcaacatct tttcttgcct ctgtcccctt ctctcatctc ttagctcccc tccaacctgg     120
ggggcagtgg tgtggagaag ccacagg                                         147

        <210> 285
        <211> 316
        <212> DNA
        <213> Homo sapien

        <400> 285
cggccgaggt ctggcttcac tcctactccc tctctgctcg cagcacgtcg gccgccagct      60
ctttgatgtg ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg     120
caaagcgcag gacaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac     180
tgtttattct ttgcagaaga gcttcattca ctttgttgga accctttagc cgaaagcaga     240
caagccccag aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact     300
caaactcatg ggacag                                                     316

        <210> 286
        <211> 322
        <212> DNA
        <213> Homo sapien

        <400> 286
cctggggagc cctttagtgg ggtgggacct caggcagacc cccaaaccaa agggagccag      60
atgcccaagt tcaagtcatt agtgatatgt ggcagggctg acagagaaat aatcctggag     120
gtctccaaag ctgctgggaa tggaatggcg atgaaaagcg caggagtggg cagggtgtgg     180
tgggtgatgg tggcctcact cagagtggac caaggcccca gctccttgcc caaaaccaaa     240
gcccttgggc ccgaagtttt tagcataaca tcctttgcag taaatctcgc catccttgtc     300
tgccagggtg gttgactcaa gg                                              322

        <210> 287
        <211> 364
        <212> DNA
        <213> Homo sapien

        <400> 287
ctgcccacgc tcaaaccaat tctggctgat atcgagtacc tgcaggacca gcacctcctg      60
ctcacagtca agtccatgga tggctatgaa tcctatgggg agtgtgtggt tgcactcaaa     120
tccatgatcg gcagcacggc ccaacagttc ctgaccttcc tatcccaccg tggcgaggag     180
acaggcaata tcagaggctc catgaaggtg cgggtgccca cggagcgcct gggcacccgt     240
gagcggctct acgagtggat cagcattgat aaggatgagg caggagcaaa gagcaaagcc     300
ccctctgtgt cccgagggag ccaggagccc aggtcaggga gccgcaagcc agccttcaca     360
gagg                                                                  364
```

```
      <210> 288
      <211> 261
      <212> DNA
      <213> Homo sapien

      <400> 288
aaaattataa ctactcattc tttctttagc cttagttaat ttgagcagaa gccacaacaa      60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc     120
cacactacta ccatttacag ttgtaggttt gtaatgtata attatgtaat gcagaaacta     180
gctttgactt gtgtaacgat gcactgtcaa agtaagcaaa gtaagaattg aaattccaca     240
ttcccagaat ttaacactca g                                               261

      <210> 289
      <211> 261
      <212> DNA
      <213> Homo sapien

      <400> 289
ctgagtgtta aattctggga atgtggaatt tcaattctta ctttgcttac tttgacagtg      60
catcgttaca caagtcaaag ctagtttctg cattacataa ttatacatta caaacctaca     120
actgtaaatg gtagtagtgt ggaaacttgg gaagaggagt taatgtggat ttctgccaat     180
tctaaattta ttgtggtttg cttgttgtgg cttctgctca aattaactaa ggctaaagaa     240
agaatgagta gttataattt t                                               261

      <210> 290
      <211> 92
      <212> DNA
      <213> Homo sapien

      <400> 290
ccactacccg aacttacagg tgccaaaaga agaaagggta taaacggaga ccacctatca      60
ctcatcagaa cctaggatca tcacattcct tt                                    92

      <210> 291
      <211> 287
      <212> DNA
      <213> Homo sapien

      <400> 291
ccatggctcc gctcagggcc ccggtcacct ccgagtcact ctgttccttg actgtctttg      60
tgtttctgta cctcaaggca ctgaagctgg aggactctgt ccatgcctgt gtcaccctcg     120
tgtgggagcc tctgggctcg gcaggtccac atttcatgag ctgaggcgtg ggccagggcc     180
atctggaaag ggaactcggc ttttccagaa cgtggtggat catctgtcgg gtgtgtggtg     240
aacacgttca gttcatcagg gcctacgctc cgggaagggg cccccag                   287

      <210> 292
      <211> 270
      <212> DNA
      <213> Homo sapien

      <400> 292
```

```
ccattgtttc ctcgctggcg aaggctcctt gaacatccct caccttcctc tcccgcctct      60
gccttctgct gggtcaaagg tggccttttc tctccagcct tgaattgttc cctgttggct     120
tcccaagggc ccatctgctg gtacagtcca cacttccaca gccaagaccc gagagggctt     180
tcactgcccc aagcctctct cctgtgaccc tgggattctg tcttggcaga atcctttgtc     240
agcggctctt actctgtcct tcctgtttgg                                      270

         <210> 293
         <211> 333
         <212> DNA
         <213> Homo sapien

         <400> 293
ccatgctcgt caacctggtg tccactgctt gctacgtctc cttcctcttc ctgggctgcg      60
acactggccc tgtggctggg gttactgttc cctatggaaa cagcacagca cctggctcag     120
ccctggaccc ctactcgccc tgcaataata actgtgaatg ccaaaccgat tccttcactc     180
cagtgtgtgg ggcagatggc atcacctacc tgtctgcctg ctttgctggc tgcaacagca     240
cgaatctcac gggctgtgcg tgcctcacca ccgtccctgc tgagaacgca accgtggttc     300
ctggaaaatg ccccagtcct gggtgccaag agg                                  333

         <210> 294
         <211> 123
         <212> DNA
         <213> Homo sapien

         <400> 294
ctgatacaaa tacagaaaac tctgcccatt atccaagaaa caaataatta agactaaaat      60
gcaagctgat gtgttgcagc attgtagggc cactaaatag ccatctgtga ttcgtggcaa     120
ttt                                                                   123

         <210> 295
         <211> 311
         <212> DNA
         <213> Homo sapien

         <400> 295
ctgcatacag acatttgttt aggtcatctg gattatcttg attgtcacca tggcaactat      60
ccacaaccag tgcctaggtg tgtgagaaga gtgatacaat aatactgtgg catggtcatt     120
tagctaatcc agtctaagcc taacagaaac cttttccatc aaagtttttc agagaataac     180
aacatctcat aagaggccag aggatggctt gtgcttaata tcacacctgt acagtagggc     240
agtgcttccc aggctgtctg cttacatttt agcttgtctt acggttacat atggttttag     300
tattttcatt t                                                          311

         <210> 296
         <211> 241
         <212> DNA
         <213> Homo sapien

         <400> 296
ctgcggaaga tctgcaacca cccctacatg ttccagcaca tcgaggagtc cttttccgag      60
cacttggggt tcactggcgg cattgtccaa gggctggacc tgtaccgagc ctcgggtaaa     120
tttgagcttc ttgatagaat tcttcccaaa ctccgagcaa ccaaccacaa agtgctgctg     180
```

```
ttctgccaaa tgacctccct catgaccatc atggaagatt actttgcgta tcgcggcttt     240
a                                                                     241

      <210> 297
      <211> 295
      <212> DNA
      <213> Homo sapien

      <400> 297
aaacacaaga tgaaaatact ctgttctgtc caaagcatca cctaatggtg tgaggcatct      60
cacttagctg tggagaagtc cttggaatta gatctcagaa agacagcttt aagacagtaa     120
aacctttgg caatgggcta attgccttaa aagaagagtt ctacctgaaa gaccttgcag      180
gtggagaaat tgtcctacaa agattcttgg atatgttagt ggagataact gacatgggta     240
gctgtgggtc aaccaggaac tgtcaacaac ctgatctctg caaaaccagg atgga          295

      <210> 298
      <211> 347
      <212> DNA
      <213> Homo sapien

      <400> 298
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tattcaccct gcagaagaca cggaaggtac tgagtttgag ccagagggac ttccagaagt     180
tgtaaagaaa gggtttgctg acatcccgac aggaaagact agcccatata tcctgcgaag     240
aacaaccatg gcaactcgga ccagcccccg cctggctgca cagaagttag cgctatcccc     300
actgagtctc ggcaaagaaa atcttgcaga gtcctccaaa ccaacag                   347

      <210> 299
      <211> 268
      <212> DNA
      <213> Homo sapien

      <400> 299
aaaaagtaaa catgaaaaca tcacgaattg taccatgatt caagaataac ttttgtaata      60
gaaaacacat gaccttttgc agtatagtgt gataccgaag taaaagtgaa agaaataaat     120
gcaggaaagt ttaagtggat gtaagttttt ataaggaaag taataagagg aggctgcttt     180
tgaaggtcct ttgatcttcc atgatgataa tatcgttgca aagttcttta acttgtattc     240
aagtaattag cagttgacca cttggttt                                        268

      <210> 300
      <211> 185
      <212> DNA
      <213> Homo sapien

      <400> 300
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ctgaccatct ttatttctgt caaaaatctt catcatggtg ccggtgtatt cttccagttt     120
agcctcagaa atggcctttc tgtggtgaag aaagaggtct cggaggaagt tgcggagctc     180
agcag                                                                 185
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<210> 301
<211> 75
<212> DNA
<213> Homo sapien

<400> 301
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tttgaaattg gcttt 75

<210> 302
<211> 247
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(247)
<223> n = A,T,C or G

<400> 302
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ttgtagcagc cacatcagaa agcagaagaa aacagtattt ctgaaggcat tgtttgaggt 120
tgatctcagc actgaacgat ttcaagccct acgcaccana acagaaggag ggtggaggaa 180
gtgatcanag ggaacgagct gtaggtttgc anaaatgtgt gaaaccaaaa tgatcactgc 240
ctacttg 247

<210> 303
<211> 535
<212> DNA
<213> Homo sapien

<400> 303
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tgtacctgta atcctgaaga aaaggtccta attccttcca tgctgaaatg ctagctttgg 120
tttcagagag agactttatt gcaactgtga ccaccgtcac tggtgagcac tgctgttcgg 180
cccccagcgg acttaaaaga ctggaatgtg gtagtggcgg tcgttctcgg tcagcaggga 240
gatctccggc cagtccctga gaggctcctc tgggtagcag acttcaaagt ctctggagtt 300
aaacttgaac agtctgaaca cttttatctt tacttcaagg gagtatccaa gtataaacat 360
atcaatctgc tctagtccac atgtgtcgcc tacagaattc aggtgattca tcatgaagct 420
caaaggatca gaggatgtct ccctggaaaa caggagtcta aaaagactgg gaatgacctt 480
tttagtcttc atttgttcat aaacttcagt gacttgatac agcatgatga acttt 535

<210> 304
<211> 522
<212> DNA
<213> Homo sapien

<400> 304
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taaatagcaa aatagaaaga aaagggggaa aaggtagaag gcaaggggaa aactattggt 120
tttagatctt tatcctggtc ctgtcaatga tcaggtaatt ggaaggatca aaattaggcc 180

aaacttggta attgggccaa aattgaacca aagtttgtgt caagaagacc tggggcagag 240
atatgtgact aaatcatttg gaatatgccc agaccccaag aatatttatg cccaacttga 300
atgctaacca gaagtccctt actgtagaag attgtaaggt tgctattttt ttgccccgac 360
accaaaatat tgatgtattt tccaacacca attctccaat tctctgacac caactcgatg 420
ttcaacaatt cagttatatt ctgtcactaa ttcctgcagc tatcagcagg ccccacaggt 480
aaaggattca gtctcacaag attgcccccc caccccacttc ag 522

<210> 305
<211> 165
<212> DNA
<213> Homo sapien

<400> 305
cctaaagcgc tcctcgctga agctcaaggg gtccacaatg atttgtttgt caaagttatt 60
gagtgcatat gccagttctc ctcctcctcc accctggtgc tgtgaggcat cgtctgaggc 120
agtggcctgg gctgcattgg aaatgcctgt gaccgcctgc tgcag 165

<210> 306
<211> 294
<212> DNA
<213> Homo sapien

<400> 306
ctgcacctaa gacatggccc tggctaggcg ggaacagctc acagtagcga tacattcaca 60
ggacacagtt ggtgtccaga aaagggggct cagaacacag tttctacaca agcacttggc 120
acccacacga cagagacgtc actcaagcag cacagccaca aatagtttac agcagctcat 180
gcccggcatc cgcccatgct gggagactcc ctgaaaggtg ggcacctgcc gtctatgagg 240
aggtgtctcc ctccatcatt aaccccaaac cacacaatgt gtgaggagag cagg 294

<210> 307
<211> 181
<212> DNA
<213> Homo sapien

<400> 307
aaaaatccat gacaccttga tagaaattag agtttacaca aacaaaaaag gaaccttcga 60
tattgccagc agctataaag tgaacgtact gagaccgaca ggacagcaag aaggcatttg 120
cacatttata tctgacaccc gaccatactt tcagtcacca gaatatcttc tctccagatt 180
t 181

<210> 308
<211> 179
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(179)
<223> n = A,T,C or G

<400> 308

aaggctgagg actgctggga gctcagatca gcccggagct actggctcat gggcagccaa 60
aaaatactgg atctgctgaa cgaaggctca gcccgagatc tccgcagtct tcagcgcatt 120
ggcccgaaga aggcccanct aatcgtgggc tggcgggagc tccacggccc cttcagcca 179

<210> 309
<211> 129
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(129)
<223> n = A,T,C or G

<400> 309
ctgcccgctt gcccgtagct gactcagntt cctcatcttc atctccatcc tcttcctcac 60
catcaccttc ttcttcctcc tcctcttcct ccccaccttc ttcctcttct tcgtctacct 120
cattgtcag 129

<210> 310
<211> 390
<212> DNA
<213> Homo sapien

<400> 310
tgaggctggg ggagagccgt ggtccctgag gatgggtcag agctaaactc cttcctggcc 60
tgagagtcag ctctctgccc tgtgtacttc ccgggccagg gctgccccta atctctgtag 120
gaaccgtggt atgtctgcat gttgcccctt tctcttttcc cctttcctgt cccaccatac 180
gagcacctcc agcctgaaca gaagctctta ctctttccta tttcagtgtt acctgtgtgc 240
ttggtctgtt tgactttacg cccatctcag gacacttccg tagactgttt aggttcccct 300
gtcaaatatc agttacccac tcggtcccag ttttgttgcc ccagaaaggg atgttattat 360
ccttgggggc tcccagggca agggttaagg 390

<210> 311
<211> 355
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G

<400> 311
cctctctgtg ctgctgaagg cagatcgctt gttccacacc agctaccact cccaggcagt 60
gcatatccgc ctgttgagaa atgccgtgtc tagattgtgg acaagagcct gcgtgattat 120
gctatangga naaaaattct tcgagttcca cccnanctcc tctaaacatt tggctcactc 180
aaaacaaaaa gncaccaatc ttantactgc tgaacttcat ttatgtnacc taacattaac 240
cntcgtagga aaaccaaata gccctctcgt ncangatatg ttgctaaagg actaccntgt 300
tcaacacaac ggctccggtg tgtgaactcc tgtttgggtg attcccctac tctca 355

<210> 312
<211> 498
<212> DNA
<213> Homo sapien

<400> 312
ccattctttt gaatctaatc tattatcaat agcatcctcc ataatatctt tgataaaagg 60
tgtccaccga gagagctgaa aagtttcttc tgcagaccga tcctttctta acggtttgcc 120
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ctcattttct atctttacat tctggatcaa cctgtccaaa ttttcttccg tagttccatt 240
aatactgaag atataaagta gaattgctct tattttatca caattatcat gatttttgtt 300
gagtagaact ggaaggagta ctcgcatgga atctttcacc ttctgtcctt ctgcatcagt 360
tccaagtgcc aggtcctgtt cagttttgca gagcttttct atattaagct tgaacttatt 420
catgcaatct tctgctaagt taagatggac aacttgctta gtaatctgtt ttcggaaata 480
gggcatcttt ttcatcag 498

<210> 313
<211> 653
<212> DNA
<213> Homo sapien

<400> 313
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aaaaacaaaa acaaaaacgc atttaaggat acacgaagca gtgaaaacaa agccccagta 120
ttttcgctaa agtactggaa atacctgttt ctaaaaacag ctttatattt gtccactgcc 180
tagaatagct ctcacccaaa cctcaaaaat aagagcagat agattttaga agcaagaaaa 240
ggtaaacagt gcccatatta tttgagactg gctctgctgc cctccctaag ccagtttaca 300
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tccatggagc tctgtgtaca tgaaaattcc tccaagtgtg gcttttgtcg aattcagaga 480
tacagcaagc cacgcataaa acatggagtg tagagcactg gtgtacctag cttagaaaca 540
ccctcggtga atgtggtact gtggctcgaa aggaagcaag ggacaggacc caggagactg 600
ggcggccagg ctctcggagt tccacacaca cctgtgaagc ccggccagca cag 653

<210> 314
<211> 513
<212> DNA
<213> Homo sapien

<400> 314
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gtcggtgggg agggcctttt ctccccataa atgcctgaac tttaatttat accatataag 180
aaatcagtga aaggtaaaca acaaggttaa tgtaactcta ttataaattt tgcatttttt 240
ttctctgtga catatacaag tatatttttg tttttggagc tataaattat ttaatttagc 300
aatcttcaaa gctcataaat ttcaactttt caaataagaa attttaactt caaataagaa 360
gtctaggact ttatggctat taattttact atcaaaatat ccaaggggact ccattcaatg 420
taatagttat aattcttcta aatatcattt gaataattct ttgtggacgc tagactcaag 480
actatgctac atccaaacag tacatctata acc 513

<210> 315

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<211> 222
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

<400> 315
atttatattc aaggnatctc aaagaaagca ttttcatttc actgcacatc tagagaaaaa      60
caaaaataga aaattttcta gtccatccta atctgaatgg tgctgtttct atattggtca     120
ttgccttgca aacaggagct ccacaaaagc caggaagaga gactgcctcc ttggctgaaa     180
gagtcctttc aggaaggtgg actgcattgg tttgatatgt tt                        222


<210> 316
<211> 1633
<212> DNA
<213> Homo sapiens

<400> 316
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ccagactagc gaacaataca gtcgggatgg ctaaaggtga ccccaagaaa ccaaagggca 120
agacgtccgc ttatgccttc tttgtgcaga catgcagaga agaacataag aagaaaaacc 180
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tcaatttctg actcacagca gtgaacaaac ccccactccg ttgtatttgg agactggcct 1620
ccctataaat gtg                                                    1633
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<210> 317
<211> 4235
<212> DNA
<213> Homo sapiens

<400> 317
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ttcaggccag gccttggatg gtatactgta aattcagcat atggagatac cattatcata 120
ccttgccgac ttgacgtacc tcagaatctc atgtttggca aatggaaata tgaaaagccc 180
gatggctccc cagtatttat tgccttcaga tcctctacaa agaaaagtgt gcagtacgac 240
gatgtaccag aatacaaaga cagattgaac ctctcagaaa actacacttt gtctatcagt 300
aatgcaagga tcagtgatga aaagagattt gtgtgcatgc tagtaactga ggacaacgtg 360
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agttatccag atggcaatat cacatggtac aggaatggaa aagtgctaca tccccttgaa 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa                            4235

<210> 318
<211> 3347
<212> DNA
<213> Homo sapiens

<400> 318
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aagatgacca agaagcttat tttcgataca tggcagaaaa cccaactgct ggtgtggttc 180
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ctaccaggga gctttgccag cagatccatg cagaatgtaa gcggtttgga aaagcatata 720
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Phe Val Phe Asp Arg Pro Leu Pro Val Ser Arg Leu Val Ser Leu Ile
            100                 105                 110

Gly Ser Lys Thr Gln Ile Pro Thr Gln Arg Tyr Gly Arg Arg Pro Tyr
        115                 120                 125

Gly Val Gly Leu Leu Ile Ala Gly Tyr Asp Asp Met Gly Pro His Ile
    130                 135                 140

Phe Gln Thr Cys Pro Ser Ala Asn Tyr Phe Asp Cys Arg Ala Met Ser
145                 150                 155                 160

Ile Gly Ala Arg Ser Gln Ser Ala Arg Thr Tyr Leu Glu Arg His Met
                165                 170                 175

Ser Glu Phe Met Glu Cys Asn Leu Asn Glu Leu Val Lys His Gly Leu
            180                 185                 190

Arg Ala Leu Arg Glu Thr Leu Pro Ala Glu Gln Asp Leu Thr Thr Lys
        195                 200                 205

Asn Val Ser Ile Gly Ile Val Gly Lys Asp Leu Glu Phe Thr Ile Tyr
    210                 215                 220

Asp Asp Asp Asp Val Ser Pro Phe Leu Glu Gly Leu Glu Glu Arg Pro
225                 230                 235                 240

Gln Arg Lys Ala Gln Pro Ala Gln Pro Ala Asp Glu Pro Ala Glu Lys
                245                 250                 255

Ala Asp Glu Pro Met Glu His
            260


<210> 326
<211> 539
<212> PRT
<213> Homo sapiens

<400> 326
Met Pro Glu Asn Val Ala Pro Arg Ser Gly Ala Thr Ala Gly Ala Ala
                  5                  10                  15

Gly Gly Arg Gly Lys Gly Ala Tyr Gln Asp Arg Asp Lys Pro Ala Gln
             20                  25                  30
```

```
Ile Arg Phe Ser Asn Ile Ser Ala Ala Lys Ala Val Ala Asp Ala Ile
         35                  40                  45

Arg Thr Ser Leu Gly Pro Lys Gly Met Asp Lys Met Ile Gln Asp Gly
     50                  55                  60

Lys Gly Asp Val Thr Ile Thr Asn Asp Gly Ala Thr Ile Leu Lys Gln
 65                  70                  75                  80

Met Gln Val Leu His Pro Ala Ala Arg Met Leu Val Glu Leu Ser Lys
                 85                  90                  95

Ala Gln Asp Ile Glu Ala Gly Asp Gly Thr Thr Ser Val Val Ile Ile
            100                 105                 110

Ala Gly Ser Leu Leu Asp Ser Cys Thr Lys Leu Leu Gln Lys Gly Ile
        115                 120                 125

His Pro Thr Ile Ile Ser Glu Ser Phe Gln Lys Ala Leu Glu Lys Gly
    130                 135                 140

Ile Glu Ile Leu Thr Asp Met Ser Arg Pro Val Glu Leu Ser Asp Arg
145                 150                 155                 160

Glu Thr Leu Leu Asn Ser Ala Thr Thr Ser Leu Asn Ser Lys Val Val
                165                 170                 175

Ser Gln Tyr Ser Ser Leu Leu Ser Pro Met Ser Val Asn Ala Val Met
            180                 185                 190

Lys Val Ile Asp Pro Ala Thr Ala Thr Ser Val Asp Leu Arg Asp Ile
        195                 200                 205

Lys Ile Val Lys Lys Leu Gly Gly Thr Ile Asp Asp Cys Glu Leu Val
    210                 215                 220

Glu Gly Leu Val Leu Thr Gln Lys Val Ser Asn Ser Gly Ile Thr Arg
225                 230                 235                 240

Val Glu Lys Ala Lys Ile Gly Leu Ile Gln Phe Cys Leu Ser Ala Pro
                245                 250                 255

Lys Thr Asp Met Asp Asn Gln Ile Val Val Ser Asp Tyr Ala Gln Met
            260                 265                 270

Asp Arg Val Leu Arg Glu Glu Arg Ala Tyr Ile Leu Asn Leu Val Lys
        275                 280                 285

Gln Ile Lys Lys Thr Gly Cys Asn Val Leu Leu Ile Gln Lys Ser Ile
    290                 295                 300
```

```
Leu Arg Asp Ala Leu Ser Asp Leu Ala Leu His Phe Leu Asn Lys Met
305                 310                 315                 320

Lys Ile Met Val Ile Lys Asp Ile Glu Arg Glu Asp Ile Glu Phe Ile
                325                 330                 335

Cys Lys Thr Ile Gly Thr Lys Pro Val Ala His Ile Asp Gln Phe Thr
            340                 345                 350

Ala Asp Met Leu Gly Ser Ala Glu Leu Ala Glu Glu Val Asn Leu Asn
        355                 360                 365

Gly Ser Gly Lys Leu Leu Lys Ile Thr Gly Cys Ala Ser Pro Gly Lys
    370                 375                 380

Thr Val Thr Ile Val Val Arg Gly Ser Asn Lys Leu Val Ile Glu Glu
385                 390                 395                 400

Ala Glu Arg Ser Ile His Asp Ala Leu Cys Val Ile Arg Cys Leu Val
                405                 410                 415

Lys Lys Arg Ala Leu Ile Ala Gly Gly Gly Ala Pro Glu Ile Glu Leu
            420                 425                 430

Ala Leu Arg Leu Thr Glu Tyr Ser Arg Thr Leu Ser Gly Met Glu Ser
        435                 440                 445

Tyr Cys Val Arg Ala Phe Ala Asp Ala Met Glu Val Ile Pro Ser Thr
    450                 455                 460

Leu Ala Glu Asn Ala Gly Leu Asn Pro Ile Ser Thr Val Thr Glu Leu
465                 470                 475                 480

Arg Asn Arg His Ala Gln Gly Glu Lys Thr Ala Gly Ile Asn Val Arg
                485                 490                 495

Lys Gly Gly Ile Ser Asn Ile Leu Glu Glu Leu Val Val Gln Pro Leu
            500                 505                 510

Leu Val Ser Val Ser Ala Leu Thr Leu Ala Thr Glu Thr Val Arg Ser
        515                 520                 525

Ile Leu Lys Ile Asp Asp Val Val Asn Thr Arg
    530                 535


<210> 327
<211> 144
<212> PRT
<213> Homo sapiens
```

```
<400> 327
Met Ala Phe Thr Phe Ala Ala Phe Cys Tyr Met Leu Ala Leu Leu Leu
                  5                  10                  15

Thr Ala Ala Leu Ile Phe Phe Ala Ile Trp His Ile Ile Ala Phe Asp
             20                  25                  30

Glu Leu Lys Thr Asp Tyr Lys Asn Pro Ile Asp Gln Cys Asn Thr Leu
         35                  40                  45

Asn Pro Leu Val Leu Pro Glu Tyr Leu Ile His Ala Phe Phe Cys Val
     50                  55                  60

Met Phe Leu Cys Ala Ala Glu Trp Leu Thr Leu Gly Leu Asn Met Pro
 65                  70                  75                  80

Leu Leu Ala Tyr His Ile Trp Arg Tyr Met Ser Arg Pro Val Met Ser
                 85                  90                  95

Gly Pro Gly Leu Tyr Asp Pro Thr Thr Ile Met Asn Ala Asp Ile Leu
            100                 105                 110

Ala Tyr Cys Gln Lys Glu Gly Trp Cys Lys Leu Ala Phe Tyr Leu Leu
        115                 120                 125

Ala Phe Phe Tyr Tyr Leu Tyr Gly Met Ile Tyr Val Leu Val Ser Ser
    130                 135                 140


<210> 328
<211> 138
<212> PRT
<213> Homo sapiens

<400> 328
Met Pro Asn Phe Ser Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe
                  5                  10                  15

Glu Glu Leu Leu Lys Val Leu Gly Val Asn Val Met Leu Arg Lys Ile
             20                  25                  30

Ala Val Ala Ala Ala Ser Lys Pro Ala Val Glu Ile Lys Gln Glu Gly
         35                  40                  45

Asp Thr Phe Tyr Ile Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile
     50                  55                  60

Asn Phe Lys Val Gly Glu Glu Phe Glu Glu Gln Thr Val Asp Gly Arg
 65                  70                  75                  80
```

```
Pro Cys Lys Ser Leu Val Lys Trp Glu Ser Glu Asn Lys Met Val Cys
                 85                  90                  95

Glu Gln Lys Leu Leu Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg
            100                 105                 110

Glu Leu Thr Asn Asp Gly Glu Leu Ile Leu Thr Met Thr Ala Asp Asp
        115                 120                 125

Val Val Cys Thr Arg Val Tyr Val Arg Glu
    130                 135


<210> 329
<211> 346
<212> PRT
<213> Homo sapiens

<400> 329
Met Phe Leu Ser Ile Leu Val Ala Leu Cys Leu Trp Leu His Leu Ala
                 5                  10                  15

Leu Gly Val Arg Gly Ala Pro Cys Glu Ala Val Arg Ile Pro Met Cys
             20                  25                  30

Arg His Met Pro Trp Asn Ile Thr Arg Met Pro Asn His Leu His His
        35                  40                  45

Ser Thr Gln Glu Asn Ala Ile Leu Ala Ile Glu Gln Tyr Glu Glu Leu
    50                  55                  60

Val Asp Val Asn Cys Ser Ala Val Leu Arg Phe Phe Phe Cys Ala Met
 65                  70                  75                  80

Tyr Ala Pro Ile Cys Thr Leu Glu Phe Leu His Asp Pro Ile Lys Pro
                 85                  90                  95

Cys Lys Ser Val Cys Gln Arg Ala Arg Asp Asp Cys Glu Pro Leu Met
            100                 105                 110

Lys Met Tyr Asn His Ser Trp Pro Glu Ser Leu Ala Cys Asp Glu Leu
        115                 120                 125

Pro Val Tyr Asp Arg Gly Val Cys Ile Ser Pro Glu Ala Ile Val Thr
    130                 135                 140

Asp Leu Pro Glu Asp Val Lys Trp Ile Asp Ile Thr Pro Asp Met Met
145                 150                 155                 160

Val Gln Glu Arg Pro Leu Asp Val Asp Cys Lys Arg Leu Ser Pro Asp
                165                 170                 175
```

Arg Cys Lys Cys Lys Lys Val Lys Pro Thr Leu Ala Thr Tyr Leu Ser
180 185 190

Lys Asn Tyr Ser Tyr Val Ile His Ala Lys Ile Lys Ala Val Gln Arg
195 200 205

Ser Gly Cys Asn Glu Val Thr Thr Val Val Asp Val Lys Glu Ile Phe
210 215 220

Lys Ser Ser Ser Pro Ile Pro Arg Thr Gln Val Pro Leu Ile Thr Asn
225 230 235 240

Ser Ser Cys Gln Cys Pro His Ile Leu Pro His Gln Asp Val Leu Ile
245 250 255

Met Cys Tyr Glu Trp Arg Ser Arg Met Met Leu Leu Glu Asn Cys Leu
260 265 270

Val Glu Lys Trp Arg Asp Gln Leu Ser Lys Arg Ser Ile Gln Trp Glu
275 280 285

Glu Arg Leu Gln Glu Gln Arg Arg Thr Val Gln Asp Lys Lys Lys Thr
290 295 300

Ala Gly Arg Thr Ser Arg Ser Asn Pro Pro Lys Pro Lys Gly Lys Pro
305 310 315 320

Pro Ala Pro Lys Pro Ala Ser Pro Lys Lys Asn Ile Lys Thr Arg Ser
325 330 335

Ala Gln Lys Arg Thr Asn Pro Lys Arg Val
340 345

<210> 330
<211> 826
<212> PRT
<213> Homo sapiens

<400> 330
Met Glu Gly Ala Gly Gly Ala Asn Asp Lys Lys Lys Ile Ser Ser Glu
5 10 15

Arg Arg Lys Glu Lys Ser Arg Asp Ala Ala Arg Ser Arg Arg Ser Lys
20 25 30

Glu Ser Glu Val Phe Tyr Glu Leu Ala His Gln Leu Pro Leu Pro His
35 40 45

Asn Val Ser Ser His Leu Asp Lys Ala Ser Val Met Arg Leu Thr Ile

50 55 60

Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp Ala Gly Asp Leu Asp Ile
65 70 75 80

Glu Asp Asp Met Lys Ala Gln Met Asn Cys Phe Tyr Leu Lys Ala Leu
85 90 95

Asp Gly Phe Val Met Val Leu Thr Asp Asp Gly Asp Met Ile Tyr Ile
100 105 110

Ser Asp Asn Val Asn Lys Tyr Met Gly Leu Thr Gln Phe Glu Leu Thr
115 120 125

Gly His Ser Val Phe Asp Phe Thr His Pro Cys Asp His Glu Glu Met
130 135 140

Arg Glu Met Leu Thr His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu
145 150 155 160

Gln Asn Thr Gln Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr
165 170 175

Ser Arg Gly Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu
180 185 190

His Cys Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro
195 200 205

Gln Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Val Leu Ile Cys
210 215 220

Glu Pro Ile Pro His Pro Ser Asn Ile Glu Ile Pro Leu Asp Ser Lys
225 230 235 240

Thr Phe Leu Ser Arg His Ser Leu Asp Met Lys Phe Ser Tyr Cys Asp
245 250 255

Glu Arg Ile Thr Glu Leu Met Gly Tyr Glu Pro Glu Glu Leu Leu Gly
260 265 270

Arg Ser Ile Tyr Glu Tyr Tyr His Ala Leu Asp Ser Asp His Leu Thr
275 280 285

Lys Thr His His Asp Met Phe Thr Lys Gly Gln Val Thr Thr Gly Gln
290 295 300

Tyr Arg Met Leu Ala Lys Arg Gly Gly Tyr Val Trp Val Glu Thr Gln
305 310 315 320

Ala Thr Val Ile Tyr Asn Thr Lys Asn Ser Gln Pro Gln Cys Ile Val

```
                325                 330                 335

Cys Val Asn Tyr Val Val Ser Gly Ile Ile Gln His Asp Leu Ile Phe
            340                 345                 350

Ser Leu Gln Gln Thr Glu Cys Val Leu Lys Pro Val Glu Ser Ser Asp
        355                 360                 365

Met Lys Met Thr Gln Leu Phe Thr Lys Val Glu Ser Glu Asp Thr Ser
    370                 375                 380

Ser Leu Phe Asp Lys Leu Lys Lys Glu Pro Asp Ala Leu Thr Leu Leu
385                 390                 395                 400

Ala Pro Ala Ala Gly Asp Thr Ile Ile Ser Leu Asp Phe Gly Ser Asn
                405                 410                 415

Asp Thr Glu Thr Asp Asp Gln Gln Leu Glu Glu Val Pro Leu Tyr Asn
            420                 425                 430

Asp Val Met Leu Pro Ser Pro Asn Glu Lys Leu Gln Asn Ile Asn Leu
        435                 440                 445

Ala Met Ser Pro Leu Pro Thr Ala Glu Thr Pro Lys Pro Leu Arg Ser
    450                 455                 460

Ser Ala Asp Pro Ala Leu Asn Gln Glu Val Ala Leu Lys Leu Glu Pro
465                 470                 475                 480

Asn Pro Glu Ser Leu Glu Leu Ser Phe Thr Met Pro Gln Ile Gln Asp
                485                 490                 495

Gln Thr Pro Ser Pro Ser Asp Gly Ser Thr Arg Gln Ser Ser Pro Glu
            500                 505                 510

Pro Asn Ser Pro Ser Glu Tyr Cys Phe Tyr Val Asp Ser Asp Met Val
        515                 520                 525

Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu Phe Ala Glu Asp Thr
    530                 535                 540

Glu Ala Lys Asn Pro Phe Ser Thr Gln Asp Thr Asp Leu Asp Leu Glu
545                 550                 555                 560

Met Leu Ala Pro Tyr Ile Pro Met Asp Asp Asp Phe Gln Leu Arg Ser
                565                 570                 575

Phe Asp Gln Leu Ser Pro Leu Glu Ser Ser Ser Ala Ser Pro Glu Ser
            580                 585                 590

Ala Ser Pro Gln Ser Thr Val Thr Val Phe Gln Gln Thr Gln Ile Gln
```

```
        595                 600                 605

Glu Pro Thr Ala Asn Ala Thr Thr Thr Thr Ala Thr Thr Asp Glu Leu
    610                 615                 620

Lys Thr Val Thr Lys Asp Arg Met Glu Asp Ile Lys Ile Leu Ile Ala
625                 630                 635                 640

Ser Pro Ser Pro Thr His Ile His Lys Glu Thr Thr Ser Ala Thr Ser
                645                 650                 655

Ser Pro Tyr Arg Asp Thr Gln Ser Arg Thr Ala Ser Pro Asn Arg Ala
            660                 665                 670

Gly Lys Gly Val Ile Glu Gln Thr Glu Lys Ser His Pro Arg Ser Pro
        675                 680                 685

Asn Val Leu Ser Val Ala Leu Ser Gln Arg Thr Thr Val Pro Glu Glu
    690                 695                 700

Glu Leu Asn Pro Lys Ile Leu Ala Leu Gln Asn Ala Gln Arg Lys Arg
705                 710                 715                 720

Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile Gly Thr
                725                 730                 735

Leu Leu Gln Gln Pro Asp Asp His Ala Ala Thr Thr Ser Leu Ser Trp
            740                 745                 750

Lys Arg Val Lys Gly Cys Lys Ser Ser Glu Gln Asn Gly Met Glu Gln
        755                 760                 765

Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala Cys Arg Leu Leu Gly
    770                 775                 780

Gln Ser Met Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys
785                 790                 795                 800

Glu Val Asn Ala Pro Ile Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu
                805                 810                 815

Glu Leu Leu Arg Ala Leu Asp Gln Val Asn
            820                 825


<210> 331
<211> 92
<212> PRT
<213> Homo sapiens

<400> 331
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```
Met Ala Tyr Arg Gly Gln Gly Gln Lys Val Gln Lys Val Met Val Gln
                    5                  10                  15

Pro Ile Asn Leu Ile Phe Arg Tyr Leu Gln Asn Arg Ser Arg Ile Gln
                20                  25                  30

Val Trp Leu Tyr Glu Gln Val Asn Met Arg Ile Glu Gly Cys Ile Ile
            35                  40                  45

Gly Phe Asp Glu Tyr Met Asn Leu Val Leu Asp Asp Ala Glu Glu Ile
    50                  55                  60

His Ser Lys Thr Lys Ser Arg Lys Gln Leu Gly Arg Ile Met Leu Lys
65                  70                  75                  80

Gly Asp Asn Ile Thr Leu Leu Gln Ser Val Ser Asn
                85                  90


<210> 332
<211> 235
<212> PRT
<213> Homo sapiens

<400> 332
Met Asp Pro Ala Arg Pro Leu Gly Leu Ser Ile Leu Leu Leu Phe Leu
                    5                  10                  15

Thr Glu Ala Ala Leu Gly Asp Ala Ala Gln Glu Pro Thr Gly Asn Asn
                20                  25                  30

Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu
            35                  40                  45

Leu Leu Arg Tyr Tyr Tyr Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe
    50                  55                  60

Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu
65                  70                  75                  80

Ala Cys Asp Asp Ala Cys Trp Arg Ile Glu Lys Val Pro Lys Val Cys
                85                  90                  95

Arg Leu Gln Val Ser Val Asp Asp Gln Cys Glu Gly Ser Thr Glu Lys
            100                 105                 110

Tyr Phe Phe Asn Leu Ser Ser Met Thr Cys Glu Lys Phe Phe Ser Gly
        115                 120                 125

Gly Cys His Arg Asn Arg Ile Glu Asn Arg Phe Pro Asp Glu Ala Thr
    130                 135                 140
```

```
Cys Met Gly Phe Cys Ala Pro Lys Lys Ile Pro Ser Phe Cys Tyr Ser
145                 150                 155                 160

Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn Val Thr Arg Tyr Tyr Phe
                165                 170                 175

Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe Thr Tyr Thr Gly Cys Gly
            180                 185                 190

Gly Asn Asp Asn Asn Phe Val Ser Arg Glu Asp Cys Lys Arg Ala Cys
        195                 200                 205

Ala Lys Ala Leu Lys Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala
    210                 215                 220

Ser Arg Ile Arg Lys Ile Arg Lys Lys Gln Phe
225                 230                 235


<210> 333
<211> 291
<212> PRT
<213> Homo sapiens

<400> 333
Met Gln Arg Ala Arg Pro Thr Leu Trp Ala Ala Ala Leu Thr Leu Leu
                  5                  10                  15

Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala Ser Ser Gly
             20                  25                  30

Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala Arg Ala Leu
         35                  40                  45

Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val Arg Glu
     50                  55                  60

Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln Pro
 65                  70                  75                  80

Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg Cys Gln Pro
                 85                  90                  95

Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp Gly Arg Gly
            100                 105                 110

Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala Tyr Leu Leu
        115                 120                 125

Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu Glu Asp Arg
    130                 135                 140
```

```
Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr His Arg Val
145                 150                 155                 160

Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile Ile Ile Lys
                165                 170                 175

Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp Tyr Glu Ser
            180                 185                 190

Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys Arg Glu Thr
        195                 200                 205

Glu Tyr Gly Pro Cys Arg Arg Glu Met Glu Asp Thr Leu Asn His Leu
    210                 215                 220

Lys Phe Leu Asn Val Leu Ser Pro Arg Gly Val His Ile Pro Asn Cys
225                 230                 235                 240

Asp Lys Lys Gly Phe Tyr Lys Lys Lys Gln Cys Arg Pro Ser Lys Gly
                245                 250                 255

Arg Lys Arg Gly Phe Cys Trp Cys Val Asp Lys Tyr Gly Gln Pro Leu
            260                 265                 270

Pro Gly Tyr Thr Thr Lys Gly Lys Glu Asp Val His Cys Tyr Ser Met
        275                 280                 285

Gln Ser Lys
    290


<210> 334
<211> 582
<212> PRT
<213> Homo sapiens

<400> 334
Glu Ser Lys Gly Ala Ser Ser Cys Arg Leu Leu Phe Cys Leu Leu Ile
                  5                  10                  15

Ser Ala Thr Val Phe Arg Pro Gly Leu Gly Trp Tyr Thr Val Asn Ser
             20                  25                  30

Ala Tyr Gly Asp Thr Ile Ile Ile Pro Cys Arg Leu Asp Val Pro Gln
         35                  40                  45

Asn Leu Met Phe Gly Lys Trp Lys Tyr Glu Lys Pro Asp Gly Ser Pro
     50                  55                  60

Val Phe Ile Ala Phe Arg Ser Ser Thr Lys Lys Ser Val Gln Tyr Asp
```

```
65                  70                  75                  80

Asp Val Pro Glu Tyr Lys Asp Arg Leu Asn Leu Ser Glu Asn Tyr Thr
                85                  90                  95

Leu Ser Ile Ser Asn Ala Arg Ile Ser Asp Glu Lys Arg Phe Val Cys
            100                 105                 110

Met Leu Val Thr Glu Asp Asn Val Phe Glu Ala Pro Thr Ile Val Lys
        115                 120                 125

Val Phe Lys Gln Pro Ser Lys Pro Glu Ile Val Ser Lys Ala Leu Phe
    130                 135                 140

Leu Glu Thr Glu Gln Leu Lys Lys Leu Gly Asp Cys Ile Ser Glu Asp
145                 150                 155                 160

Ser Tyr Pro Asp Gly Asn Ile Thr Trp Tyr Arg Asn Gly Lys Val Leu
                165                 170                 175

His Pro Leu Glu Gly Ala Val Val Ile Ile Phe Lys Lys Glu Met Asp
            180                 185                 190

Pro Val Thr Gln Leu Tyr Thr Met Thr Ser Thr Leu Glu Tyr Lys Thr
        195                 200                 205

Thr Lys Ala Asp Ile Gln Met Pro Phe Thr Cys Ser Val Thr Tyr Tyr
    210                 215                 220

Gly Pro Ser Gly Gln Lys Thr Ile His Ser Glu Gln Ala Val Phe Asp
225                 230                 235                 240

Ile Tyr Tyr Pro Thr Glu Gln Val Thr Ile Gln Val Leu Pro Pro Lys
                245                 250                 255

Asn Ala Ile Lys Glu Gly Asp Asn Ile Thr Leu Lys Cys Leu Gly Asn
            260                 265                 270

Gly Asn Pro Pro Pro Glu Glu Phe Leu Phe Tyr Leu Pro Gly Gln Pro
        275                 280                 285

Glu Gly Ile Arg Ser Ser Asn Thr Tyr Thr Leu Thr Asp Val Arg Arg
    290                 295                 300

Asn Ala Thr Gly Asp Tyr Lys Cys Ser Leu Ile Asp Lys Lys Ser Met
305                 310                 315                 320

Ile Ala Ser Thr Ala Ile Thr Val His Tyr Leu Asp Leu Ser Leu Asn
                325                 330                 335

Pro Ser Gly Glu Val Thr Arg Gln Ile Gly Asp Ala Leu Pro Val Ser
```

340 345 350

Cys Thr Ile Ser Ala Ser Arg Asn Ala Thr Val Val Trp Met Lys Asp
355 360 365

Asn Ile Arg Leu Arg Ser Ser Pro Ser Phe Ser Ser Leu His Tyr Gln
370 375 380

Asp Ala Gly Asn Tyr Val Cys Glu Thr Ala Leu Gln Glu Val Glu Gly
385 390 395 400

Leu Lys Lys Arg Glu Ser Leu Thr Leu Ile Val Glu Gly Lys Pro Gln
405 410 415

Ile Lys Met Thr Lys Lys Thr Asp Pro Ser Gly Leu Ser Lys Thr Ile
420 425 430

Ile Cys His Val Glu Gly Phe Pro Lys Pro Ala Ile Gln Trp Thr Ile
435 440 445

Thr Gly Ser Gly Ser Val Ile Asn Gln Thr Glu Glu Ser Pro Tyr Ile
450 455 460

Asn Gly Arg Tyr Tyr Ser Lys Ile Ile Ile Ser Pro Glu Glu Asn Val
465 470 475 480

Thr Leu Thr Cys Thr Ala Glu Asn Gln Leu Glu Arg Thr Val Asn Ser
485 490 495

Leu Asn Val Ser Ala Ile Ser Ile Pro Glu His Asp Glu Ala Asp Glu
500 505 510

Ile Ser Asp Glu Asn Arg Glu Lys Val Asn Asp Gln Ala Lys Leu Ile
515 520 525

Val Gly Ile Val Val Gly Leu Leu Leu Ala Ala Leu Val Ala Gly Val
530 535 540

Val Tyr Trp Leu Tyr Met Lys Lys Ser Lys Thr Ala Ser Lys His Val
545 550 555 560

Asn Lys Asp Leu Gly Asn Met Glu Glu Asn Lys Lys Leu Glu Glu Asn
565 570 575

Asn His Lys Thr Glu Ala
580

<210> 335
<211> 709
<212> PRT

```
<213> Homo sapiens

<400> 335
Met Ala Glu Val Glu Asp Gln Ala Ala Arg Asp Met Lys Arg Leu Glu
                 5                  10                  15

Glu Lys Asp Lys Glu Arg Lys Asn Val Lys Gly Ile Arg Asp Asp Ile
            20                  25                  30

Glu Glu Glu Asp Asp Gln Glu Ala Tyr Phe Arg Tyr Met Ala Glu Asn
        35                  40                  45

Pro Thr Ala Gly Val Val Gln Glu Glu Glu Glu Asp Asn Leu Glu Tyr
    50                  55                  60

Asp Ser Asp Gly Asn Pro Ile Ala Pro Thr Lys Lys Ile Ile Asp Pro
 65                  70                  75                  80

Leu Pro Pro Ile Asp His Ser Glu Ile Asp Tyr Pro Pro Phe Glu Lys
                85                  90                  95

Asn Phe Tyr Asn Glu His Glu Glu Ile Thr Asn Leu Thr Pro Gln Gln
            100                 105                 110

Leu Ile Asp Leu Arg His Lys Leu Asn Leu Arg Val Ser Gly Ala Ala
        115                 120                 125

Pro Pro Arg Pro Gly Ser Ser Phe Ala His Phe Gly Phe Asp Glu Gln
    130                 135                 140

Leu Met His Gln Ile Arg Lys Ser Glu Tyr Thr Gln Pro Thr Pro Ile
145                 150                 155                 160

Gln Cys Gln Gly Val Pro Val Ala Leu Ser Gly Arg Asp Met Ile Gly
                165                 170                 175

Ile Ala Lys Thr Gly Ser Gly Lys Thr Ala Ala Phe Ile Trp Pro Met
            180                 185                 190

Leu Ile His Ile Met Asp Gln Lys Glu Leu Glu Pro Gly Asp Gly Pro
        195                 200                 205

Ile Ala Val Ile Val Cys Pro Thr Arg Glu Leu Cys Gln Gln Ile His
    210                 215                 220

Ala Glu Cys Lys Arg Phe Gly Lys Ala Tyr Asn Leu Arg Ser Val Ala
225                 230                 235                 240

Val Tyr Gly Gly Gly Ser Met Trp Glu Gln Ala Lys Ala Leu Gln Glu
                245                 250                 255
```

```
Gly Ala Glu Ile Val Val Cys Thr Pro Gly Arg Leu Ile Asp His Val
            260                 265                 270

Lys Lys Lys Ala Thr Asn Leu Gln Arg Val Ser Tyr Leu Val Phe Asp
        275                 280                 285

Glu Ala Asp Arg Met Phe Asp Met Gly Phe Glu Tyr Gln Val Arg Ser
    290                 295                 300

Ile Ala Ser His Val Arg Pro Asp Arg Gln Thr Leu Leu Phe Ser Ala
305                 310                 315                 320

Thr Phe Arg Lys Lys Ile Glu Lys Leu Ala Arg Asp Ile Leu Ile Asp
                325                 330                 335

Pro Ile Arg Val Val Gln Gly Asp Ile Gly Glu Ala Asn Glu Asp Val
            340                 345                 350

Thr Gln Ile Val Glu Ile Leu His Ser Gly Pro Ser Lys Trp Asn Trp
        355                 360                 365

Leu Thr Arg Arg Leu Val Glu Phe Thr Ser Ser Gly Ser Val Leu Leu
    370                 375                 380

Phe Val Thr Lys Lys Ala Asn Ala Glu Glu Leu Ala Asn Asn Leu Lys
385                 390                 395                 400

Gln Glu Gly His Asn Leu Gly Leu Leu His Gly Asp Met Asp Gln Ser
                405                 410                 415

Glu Arg Asn Lys Val Ile Ser Asp Phe Lys Lys Lys Asp Ile Pro Val
            420                 425                 430

Leu Val Ala Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Ser Ile
        435                 440                 445

Lys Thr Val Ile Asn Tyr Asp Val Ala Arg Asp Ile Asp Thr His Thr
    450                 455                 460

His Arg Ile Gly Arg Thr Gly Arg Ala Gly Glu Lys Gly Val Ala Tyr
465                 470                 475                 480

Thr Leu Leu Thr Pro Lys Asp Ser Asn Phe Ala Gly Asp Leu Val Arg
                485                 490                 495

Asn Leu Glu Gly Ala Asn Gln His Val Ser Lys Glu Leu Leu Asp Leu
            500                 505                 510

Ala Met Gln Asn Ala Trp Phe Arg Lys Ser Arg Phe Lys Gly Gly Lys
        515                 520                 525
```

```
Gly Lys Lys Leu Asn Ile Gly Gly Gly Gly Leu Gly Tyr Arg Glu Arg
    530                 535                 540

Pro Gly Leu Gly Ser Glu Asn Met Asp Arg Gly Asn Asn Asn Val Met
545                 550                 555                 560

Ser Asn Tyr Glu Ala Tyr Lys Pro Ser Thr Gly Ala Met Gly Asp Arg
                565                 570                 575

Leu Thr Ala Met Lys Ala Ala Phe Gln Ser Gln Tyr Lys Ser His Phe
            580                 585                 590

Val Ala Ala Ser Leu Ser Asn Gln Lys Ala Gly Ser Ser Ala Ala Gly
        595                 600                 605

Ala Ser Gly Trp Thr Ser Ala Gly Ser Leu Asn Ser Val Pro Thr Asn
    610                 615                 620

Ser Ala Gln Gln Gly His Asn Ser Pro Asp Ser Pro Val Thr Ser Ala
625                 630                 635                 640

Ala Lys Gly Ile Pro Gly Phe Gly Asn Thr Gly Asn Ile Ser Gly Ala
                645                 650                 655

Pro Val Thr Tyr Pro Ser Ala Gly Ala Gln Gly Val Asn Asn Thr Ala
            660                 665                 670

Ser Gly Asn Asn Ser Arg Glu Gly Thr Gly Gly Ser Asn Gly Lys Arg
        675                 680                 685

Glu Arg Tyr Thr Glu Asn Arg Gly Ser Ser Pro Ser Gln Ser Arg Arg
    690                 695                 700

Asp Trp Gln Ser Ala
705


<210> 336
<211> 480
<212> PRT
<213> Homo sapiens

<400> 336
Met Ile Arg Ala Ala Pro Pro Pro Leu Phe Leu Leu Leu Leu Leu Leu
                  5                  10                  15

Leu Leu Leu Val Ser Trp Ala Ser Arg Gly Glu Ala Ala Pro Asp Gln
            20                  25                  30

Asp Glu Ile Gln Arg Leu Pro Gly Leu Ala Lys Gln Pro Ser Phe Arg
        35                  40                  45
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Gln Tyr Ser Gly Tyr Leu Lys Ser Ser Gly Ser Lys His Leu His Tyr
     50                  55                  60

Trp Phe Val Glu Ser Gln Lys Asp Pro Glu Asn Ser Pro Val Val Leu
 65                  70                  75                  80

Trp Leu Asn Gly Gly Pro Gly Cys Ser Ser Leu Asp Gly Leu Leu Thr
                 85                  90                  95

Glu His Gly Pro Phe Leu Val Gln Pro Asp Gly Val Thr Leu Glu Tyr
            100                 105                 110

Asn Pro Tyr Ser Trp Asn Leu Ile Ala Asn Val Leu Tyr Leu Glu Ser
        115                 120                 125

Pro Ala Gly Val Gly Phe Ser Tyr Ser Asp Asp Lys Phe Tyr Ala Thr
    130                 135                 140

Asn Asp Thr Glu Val Ala Gln Ser Asn Phe Glu Ala Leu Gln Asp Phe
145                 150                 155                 160

Phe Arg Leu Phe Pro Glu Tyr Lys Asn Asn Lys Leu Phe Leu Thr Gly
                165                 170                 175

Glu Ser Tyr Ala Gly Ile Tyr Ile Pro Thr Leu Ala Val Leu Val Met
            180                 185                 190

Gln Asp Pro Ser Met Asn Leu Gln Gly Leu Ala Val Gly Asn Gly Leu
        195                 200                 205

Ser Ser Tyr Glu Gln Asn Asp Asn Ser Leu Val Tyr Phe Ala Tyr Tyr
    210                 215                 220

His Gly Leu Leu Gly Asn Arg Leu Trp Ser Ser Leu Gln Thr His Cys
225                 230                 235                 240

Cys Ser Gln Asn Lys Cys Asn Phe Tyr Asp Asn Lys Asp Leu Glu Cys
                245                 250                 255

Val Thr Asn Leu Gln Glu Val Ala Arg Ile Val Gly Asn Ser Gly Leu
            260                 265                 270

Asn Ile Tyr Asn Leu Tyr Ala Pro Cys Ala Gly Gly Val Pro Ser His
        275                 280                 285

Phe Arg Tyr Glu Lys Asp Thr Val Val Val Gln Asp Leu Gly Asn Ile
    290                 295                 300

Phe Thr Arg Leu Pro Leu Lys Arg Met Trp His Gln Ala Leu Leu Arg
305                 310                 315                 320
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Ser Gly Asp Lys Val Arg Met Asp Pro Pro Cys Thr Asn Thr Thr Ala
                325                 330                 335

Ala Ser Thr Tyr Leu Asn Asn Pro Tyr Val Arg Lys Ala Leu Asn Ile
            340                 345                 350

Pro Glu Gln Leu Pro Gln Trp Asp Met Cys Asn Phe Leu Val Asn Leu
        355                 360                 365

Gln Tyr Arg Arg Leu Tyr Arg Ser Met Asn Ser Gln Tyr Leu Lys Leu
    370                 375                 380

Leu Ser Ser Gln Lys Tyr Gln Ile Leu Leu Tyr Asn Gly Asp Val Asp
385                 390                 395                 400

Met Ala Cys Asn Phe Met Gly Asp Glu Trp Phe Val Asp Ser Leu Asn
                405                 410                 415

Gln Lys Met Glu Val Gln Arg Arg Pro Trp Leu Val Lys Tyr Gly Asp
            420                 425                 430

Ser Gly Glu Gln Ile Ala Gly Phe Val Lys Glu Phe Ser His Ile Ala
        435                 440                 445

Phe Leu Thr Ile Lys Gly Ala Gly His Met Val Pro Thr Asp Lys Pro
    450                 455                 460

Leu Ala Ala Phe Thr Met Phe Ser Arg Phe Leu Asn Lys Gln Pro Tyr
465                 470                 475                 480


<210> 337
<211> 543
<212> PRT
<213> Homo sapiens

<400> 337
Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile
                  5                  10                  15

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr
             20                  25                  30

Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe
         35                  40                  45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
     50                  55                  60

Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser
```

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 65                  70                  75                  80

Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
                 85                  90                  95

Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
            100                 105                 110

Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln Thr Thr Arg Leu
        115                 120                 125

Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn
    130                 135                 140

Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly
145                 150                 155                 160

Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser
                165                 170                 175

Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys
            180                 185                 190

Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr
        195                 200                 205

Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala
    210                 215                 220

Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr
225                 230                 235                 240

Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
                245                 250                 255

Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
            260                 265                 270

Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
        275                 280                 285

Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
    290                 295                 300

Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
305                 310                 315                 320

Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
                325                 330                 335

Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
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            340                     345                     350

Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
        355                     360                     365

Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr
    370                     375                     380

Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile
385                     390                     395                     400

Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys
                405                     410                     415

Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala
            420                     425                     430

Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr
        435                     440                     445

Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr
    450                     455                     460

Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser
465                     470                     475                     480

Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala
                485                     490                     495

Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser
            500                     505                     510

Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu
        515                     520                     525

Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys
    530                     535                     540


<210> 338
<211> 148
<212> PRT
<213> Homo sapiens

<400> 338
Pro Pro Ala Thr Ser Tyr Ala Pro Ser Asp Val Pro Ser Gly Val Ala
                  5                    10                    15

Leu Phe Leu Thr Ile Pro Phe Ala Phe Phe Leu Pro Glu Leu Ile Phe
             20                    25                    30
```

```
Gly Phe Leu Val Trp Thr Met Val Ala Ala Thr His Ile Val Tyr Pro
        35                  40                  45

Leu Leu Gln Gly Trp Val Met Tyr Val Ser Leu Thr Ser Phe Leu Ile
    50                  55                  60

Ser Leu Met Phe Leu Leu Ser Tyr Leu Phe Gly Phe Tyr Lys Arg Phe
65                  70                  75                  80

Glu Ser Trp Arg Val Leu Asp Ser Leu Tyr His Gly Thr Thr Gly Ile
                85                  90                  95

Leu Tyr Met Ser Ala Ala Val Leu Gln Val His Ala Thr Ile Val Ser
            100                 105                 110

Glu Lys Leu Leu Asp Pro Arg Ile Tyr Tyr Ile Asn Ser Ala Ala Ser
        115                 120                 125

Phe Phe Ala Phe Ile Ala Thr Leu Leu Tyr Ile Leu His Ala Phe Ser
    130                 135                 140

Ile Tyr Tyr His
145


<210> 339
<211> 196
<212> PRT
<213> Homo sapiens

<400> 339
Met Pro Gly Met Phe Phe Ser Ala Asn Pro Lys Glu Leu Lys Gly Thr
                5                   10                  15

Thr His Ser Leu Leu Asp Asp Lys Met Gln Lys Arg Arg Pro Lys Thr
            20                  25                  30

Phe Gly Met Asp Met Lys Ala Tyr Leu Arg Ser Met Ile Pro His Leu
        35                  40                  45

Glu Ser Gly Met Lys Ser Ser Lys Ser Lys Asp Val Leu Ser Ala Ala
    50                  55                  60

Glu Val Met Gln Trp Ser Gln Ser Leu Glu Lys Leu Leu Ala Asn Gln
65                  70                  75                  80

Thr Gly Gln Asn Val Phe Gly Ser Phe Leu Lys Ser Glu Phe Ser Glu
                85                  90                  95

Glu Asn Ile Glu Phe Trp Leu Ala Cys Glu Asp Tyr Lys Lys Thr Glu
            100                 105                 110
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```
Ser Asp Leu Leu Pro Cys Lys Ala Glu Glu Ile Tyr Lys Ala Phe Val
        115                 120                 125

His Ser Asp Ala Ala Lys Gln Ile Asn Ile Asp Phe Arg Thr Arg Glu
    130                 135                 140

Ser Thr Ala Lys Lys Ile Lys Ala Pro Thr Pro Thr Cys Phe Asp Glu
145                 150                 155                 160

Ala Gln Lys Val Ile Tyr Thr Leu Met Glu Lys Asp Ser Tyr Pro Arg
                165                 170                 175

Phe Leu Lys Ser Asp Ile Tyr Leu Asn Leu Leu Asn Asp Leu Gln Ala
            180                 185                 190

Asn Ser Leu Lys
        195


<210> 340
<211> 316
<212> PRT
<213> Homo sapiens

<400> 340
Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro Ile Val
                  5                  10                  15

Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
             20                  25                  30

Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
         35                  40                  45

Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
     50                  55                  60

Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
 65                  70                  75                  80

Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr
                 85                  90                  95

Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp
            100                 105                 110

Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys
        115                 120                 125

Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala
```

```
    130                 135                 140

Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser
145                 150                 155                 160

Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu
                165                 170                 175

Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr
            180                 185                 190

Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr
        195                 200                 205

Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu
    210                 215                 220

Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys
225                 230                 235                 240

His Lys Lys Thr Ala Ala Gln Val Leu Ile Arg Phe His Ile Gln Arg
                245                 250                 255

Asn Val Ile Val Ile Pro Lys Ser Val Thr Pro Ala Arg Ile Val Glu
            260                 265                 270

Asn Ile Gln Val Phe Asp Phe Lys Leu Ser Asp Glu Glu Met Ala Thr
        275                 280                 285

Ile Leu Ser Phe Asn Arg Asn Trp Arg Ala Cys Asn Val Leu Gln Ser
    290                 295                 300

Ser His Leu Glu Asp Tyr Pro Phe Asn Ala Glu Tyr
305                 310                 315

<210> 341
      <211> 422
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(422)
      <223> n = A,T,C or G

      <400> 341
 gatganattn ttncnagaga gaggaagang ctattcagtt ggatgggatt aaatgcatca      60
 caaataagag aacttagaga gaagtcggaa aagtttgcct tccaagcccg aagttaacag     120
 aatgatgaaa cttatcatca attcattgta taaaaataaa gagattttcc tgagagaact     180
 gatttcaaat gcttctgatg ctttagataa gataaggcta atatcactga ctgatgaaaa     240
 tgctctttct ggaaatgagg aactaacagt caaaattaag tgtgataagg agaagacctg     300
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ctgcatgtca cagacaccgg tgtaggaatg accagagaag agttggttaa aaaccttggt 360
accatagcca aatctgggac aagcgagttt ttaaacaaaa tgactgaagc acaggaagat 420
gg 422

<210> 342
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

<400> 342
ctggagaagg tgtgcagggg aaaccctgct gatgtcaccg aggccaggtt gtctttctac 60
tcgggacact cttcctttgg gatgtactgc atggtgttct tggcgctgna tgtgcaggca 120
cgactctgtt ggaagtgggc acggctgctg cgacccacag tccagttctt cctggtggcc 180
tttgccctct acgtgggcta cacccgcgtg tctgattaca aacaccactg gagcgatgtc 240
cttgttggcc tcctgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac 300
ttcctcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360
agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg atacccgcac 420
tcctcctcct gaggccggac cccgcccagg cagggagcta ctgtgagtcc ag 472

<210> 343
<211> 139
<212> DNA
<213> Homo sapien

<400> 343
gtcctgggcc ttccccttcc ctcaagccag ggctcctcct cctgtcgtgg gctcattgtg 60
accactggcc tctctacagc acggcctgtg gcctgttcaa ggcagaacca cgacccttga 120
ctcccgggtg gggaggtgg 139

<210> 344
<211> 235
<212> DNA
<213> Homo sapien

<400> 344
ctgcgggctc agcacagtag acatgactgg gatccccacc ttggacaacc tccagaaggg 60
agtccaattt gctctcaagt accagtcgct gggccagtgt gtttacgtgc attgtaaggc 120
tgggcgctcc aggagtgcca ctatggtggc agcatacctg attcaggtgc acaaatggag 180
tccagaggag gctgtaagag ccatcgccaa gatccggtca tacatccaca tcagg 235

<210> 345
<211> 458
<212> DNA
<213> Homo sapien

<400> 345

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ctgtaaggtg ctattcagtc ctgtgaccct tattttggaa tgctcttcat tactgttgct       60
ctgttttgtg acttcctggg aaaccgccta ctttggtgtg gtgtcacctt gagctgtgca      120
cataggacac cagttttgac ttaacctaac aggcagtttt tatctctagc tttttcaagc      180
caggtattga gcagtttctt ggccaatggc ctgagaaacc acctgtccct gtcaaggggt      240
gattttattg gttttaagtg gggaagtaat cccatgtact tatttcttaa atacctagga      300
agttcttctt ggtggctcct cttggccctc ccctctttct cccccaaccc accatcctgc      360
aaggcaagga atggcctctc cctccacaga ggcaacggct gcagagggag cactgtggct      420
gccatcccag ttcctcttca aagccaaaca gacacgcg                              458

      <210> 346
      <211> 525
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(525)
      <223> n = A,T,C or G

      <400> 346
ccagagcaca acgcctcacc atggactgga cctggaggat nntcttnnng gtggcagcag       60
ccacaggtgt ccactcccaa gcccaacttg tgcagtctgg ggctgaggag aagaagcctg      120
gggcctcagt gactatttct tgtaaggctt ctggatatat ncttactaaa tatactttac      180
attgggtgcg ccaggccccc cccggacaaa gacctgaatg ggtgggatgg atcaacactg      240
gcattgatac cgttaaatat tcacagaagt ttcaggacag agtctccatt acctgggact      300
catccgcgac cacagnctac ctgnanntga gtagcctgga atccgaagac acggctgtgt      360
attactgtgc gagacttang gcccgttcgc tgtggtggga cttaatgacg cttttgacat      420
ctggggccaa gggacagtgg tcaccgtctc ttcanggagt gcattcgccc caaccctttt      480
ccccctctct cctgtgaaga attccccgnc ggatacgagc agcgt                      525

      <210> 347
      <211> 423
      <212> DNA
      <213> Homo sapien

      <400> 347
ccagacgctg acttgtttct gagtccttaa gcaggaagga tttgaaatcc tggagcttgg       60
cagtcttgct cttcacctct aagccaatgt tgaccccttc atctataaag tccacaactc      120
tccggaagtc atcctcacgg aactgtcgag aagttaaggc tggggcccca agccgcaggc      180
cgcccggtgt gatggcactt cggtctccag gacaggtgtt cttgttggca gtgatggata      240
caagctctag cacccgctca gcccgagctc catccaggcc cttgggccgc aggtccacca      300
gcaccaggtg gttgtcagta ccacctgata ccagtgagta gcctcgctct agcagggcat      360
ctgccatggc ccgagcattc ttcagaacct gcagggagta ctcccggaac atgggggtgc      420
agg                                                                    423

      <210> 348
      <211> 513
      <212> DNA
      <213> Homo sapien

      <400> 348
```

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cctctaggcc tgatgctctc agaggcaata gaagaaaagt aaaaggaagg tctcacttca      60
cagacaatga aaccctccta accctcttcc ccactaccca caactcccta cactgccaat     120
ctaaataaaa agaggacaat gcatgagtgt gagatacaca tacacacaca cacatacaca     180
cacacacacg cacagcttcc tttcagccaa agaactgcaa aatccttccc cggaaggagg     240
acaactggca acaccaatca aggcttggtg gtctaaggtg atggctggaa tcatgtgaga     300
ctggtaaaaa tccagggaga aaatgtttca ccttcagctc attcccaagt ctctatgaag     360
cccgccccac ttccacatag gggaactgtg gctctggggg cagcctctgc agctactcag     420
aataggtggg aggaggggct ggctttgagg ctgccttagc catgaggctc tttgcctagg     480
aatagctgga gatgggagct gcaggggct cag                                    513

       <210> 349
       <211> 231
       <212> DNA
       <213> Homo sapien

       <400> 349
ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg      60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta     120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg     180
atatggactc tagagtagga ttgcgctgtt atccctaggg taacttgttc c              231

       <210> 350
       <211> 341
       <212> DNA
       <213> Homo sapien

       <400> 350
ctgcccaagg gcgttcgtaa cgggaatgcc gaagcgtggg aaaaagggag cggtggcgga      60
agacggggat gagctcagga cagagccaga ggccaagaag agtaagacgg ccgcaaagaa     120
aaatgacaaa gaggcagcag gagagggccc agccctgtat gaggaccccc cagatcagaa     180
aacctcaccc agtggcaaac ctgccacacc caagatctgc tcttggaatg tggatgggct     240
tcgagcctgg attaagaaga aaggattaga ttgggtaaag gaagaagccc cagatatact     300
gtgccttcaa gagaccaaat gttcagagaa caaactacca g                         341

       <210> 351
       <211> 256
       <212> DNA
       <213> Homo sapien

       <400> 351
ggcgttgggg acggttgtag gacgtggctc tttattcgtg agttttccat ttacctccgc      60
tgaacctaga gcttcagacg ccctatggcg tccgcctcga cccaaccggc ggccttgagc     120
gctgagcaag caaaggtggt cctcgcggag gtgatccagg cgttctccgc cccggagaat     180
gcagtgcgca tggacgaggc tcgggataac gcctgcaacg acatgggtaa gatgctgcaa     240
ttcgtgctgc ccgtgg                                                     256

       <210> 352
       <211> 368
       <212> DNA
       <213> Homo sapien
```

<220>
<221> misc_feature
<222> (1)...(368)
<223> n = A,T,C or G

<400> 352
cctttcttgt aagtgaagaa naaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180
tcttcagtct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg 368

<210> 353
<211> 368
<212> DNA
<213> Homo sapien

<400> 353
ctgaggggtg gcagtaagca atgaggatgg gctataaagc tgttaactgg ctaagggcca 60
tccttgggca ggcatttcag acacatctgt agagagggca gtagcatctc cgataggcca 120
gctctgaagg aagcttaatg cttaatacag tcacactgca taaattagct tagaatgctc 180
tcttgggtaa aaaatattaa tagtgtatat gcacttgaag agcaaaattc ctcaagaaaa 240
aaagtttaat agcaaggagt ttccatcagt cccggtcttt gtgaggatta ccacaacaaa 300
cacttaaaag gatacaacag gtacttatta aatgctgcct tgccttttac ctcttccttt 360
tttttttt 368

<210> 354
<211> 380
<212> DNA
<213> Homo sapien

<400> 354
ccatggcttc tcacccagac agtctttctg ggcaacttgg ggaagcccct gttctgctca 60
agtctcaccc catggaagag gtgggggaag ggggccttgg tttttcagga agacaggttg 120
gagagcacga gtcactacaa agcagtaaaa gtgaatggtg tctccagggg ctgggtccag 180
aacaccacgg agagccccag ccataaaggt gtgttccgcc tctggcctgc aggaatctct 240
ttgaatctct ttgattggtg gctccaagag caatgggaag tcaacagcca ggaggctgga 300
ctgggttccc tgggaccccg aggtcccaga gctgctgggc agtggttgtc ggcaaagaag 360
aaaggtccaa gagggtcagg 380

<210> 355
<211> 347
<212> DNA
<213> Homo sapien

<400> 355
ccagtggagg ggtgggggta tcgatcccgc cgggggctgg cttggttgct ggtgccctga 60
gcccttctct gcccgcctgg gtgttgcctt cactgatgga ggtaggcgtc cagccagatg 120
tcaccagact tcttcgggga cctgacgatg tccaccagcg cggtgaggaa gggcttcact 180

```
tcgtagctga ggccgtgctt ggcacacagc gacttgacca gcggggccac ccggctgtag      240
ttgtgtctcg gcatcctggg gaagaggtgg tgctcgatct ggaagttgag gtgcccgctg      300
aaccagttgg tgaaaagtga gggctccacg ttgcaggtgg ctgccag                   347

      <210> 356
      <211> 157
      <212> DNA
      <213> Homo sapien

      <400> 356
cctggagctg ctgaagactg ctattgggaa agctggctac actgataagg tggtcatcgg       60
catggacgta gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc      120
tcccgatgac cccagcaggt acatctcgcc tgaccag                              157

      <210> 357
      <211> 323
      <212> DNA
      <213> Homo sapien

      <400> 357
ccatacaggg ctgttgccca ggccctagag gtcactcctc gtaccctgat ccagaactgt       60
ggggccagca ccatccgtct acttacctcc cttcgggcca agcacaccca ggagaactgt      120
gagacctggg gtgtaaatgg tgagacgggt actttggtgg acatgaagga actgggcata      180
tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg      240
ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg      300
caaggcgggg ctcctgatgc tgg                                              323

      <210> 358
      <211> 555
      <212> DNA
      <213> Homo sapien

      <400> 358
aaaaggtttc taaaacatga cggaggttga gatgaagctt cttcatggag taaaaaatgt       60
atttaaaaga aaattgagag aaaggactac agagccccga gttaatacca atagaagggc      120
aatgctttta gattaaaatg aaggtgactt aaacagctta aagtttagtt taaaagttgt      180
aggtgattaa aataatttga aggcgatctt ttaaaaagag attaaaccga aggtgattaa      240
aagaccttga aatccatgac gcagggagaa ttgcgtcatt taaagcctag ttaacgcatt      300
tactaaacgc agacgaaaat ggaaagatta attgggagtg gtaggatgaa acaatttgga      360
gaagatagaa gtttgaagtg gaaaactgga agacagaagt acgggaaggc gaagaaaaga      420
atagagaaga tagggaaatt agaagataaa aacatacttt tagaagaaaa aagataaatt      480
taaacctgaa aagtaggaag cagaagaaaa aagacaagct aggaaacaaa aagctaaggg      540
caaaatgtac accac                                                       555

      <210> 359
      <211> 549
      <212> DNA
      <213> Homo sapien

      <400> 359
ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc cttcctcggc       60
```

agtcacttcc actggtggac cacgggcccc cagccctgtg tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gagcccactt ccatcctctc tggtgtgagg cacagcgagg 180
gcagcatctg gaggagctct gcagcctcca cacctaccac gacctcccag ggctgggctc 240
aggaaaaacc agccactgct ttacaggaca gggggttgaa gctgagcccc gcctcacacc 300
cacccccatg cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
taaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattgtt aagttaagct 420
ttttcaaaaa atcagcaatt ccccagcgta gtcaagggtg gacactgcac gctctggcat 480
gatgggatgg cgaccgggca agctttcttc ctcgagatgc tcttgctgct tgagagctat 540
tgctttggt 549

<210> 360
<211> 289
<212> DNA
<213> Homo sapien

<400> 360
tttaaatttt actagtgtta cttaatgtat attctaaaaa gagaatgcag taactaatgc 60
cctaaatgtt tgatctctgt ttgtcattac tttttcaaaa ttattttttt ctgtaaagta 120
taatatataa aacttcttgc ttaaattgaa tttctatatt agtggttaat tgcagtttat 180
taaagggatc attatcagta atttcatagc aactgttcta gtgttttgtg tttttaaaac 240
agaattagga atttgagata tctgattata tttttcatat gaatcacag 289

<210> 361
<211> 311
<212> DNA
<213> Homo sapien

<400> 361
ctgttcagta tggcaaaggg cagacttact ccttcatcca ctctgctgcc ttgatgaggt 60
gaacacactg gaataagatg gagggcagga tacctgccaa agcctgagga atgagatgat 120
ctgaaacaat tgggcaaagg ctggacattt caaaaagctg acttccaact gcagtttatg 180
ggtatagaat ttgatgcttc cctcaagtcc tgactgctct ttctgaggca gccaggctag 240
gccaagaaat gagctgctcc agcttctcca gagcacagca gcctcccagg gcctgtcagc 300
atctgcagca g 311

<210> 362
<211> 496
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

<400> 362
ccagtttcta aaanaatgca catttaaaga gaagcatcta ccacggcttt aaaacaaaac 60
aactctgaga tgaacaatat gtgttatact cagagattaa caatctcaat catacatact 120
gattctttca gacatttaat aaccactaca ttttttgca ttaatgaagt ttgactatat 180
gtgtaaaggg actaaatatt tttgcaacag cctgttcttt gttcattctt ttctggatag 240
cgtgtcctct gtattgcggt agatttatac attctgttgc ctaaatatgt gtgtaaaatg 300

agctgataaa ctggagtact acttaaaaaa aagtctgtga tttataagat gcatatgctt 360
tctatgtgaa tataagcttg tgcacaatgt ttaaaagaaa aacaatgaat tagaagagat 420
cccccgtccc ccagtctgac atatttcata cagaatgttt aaaagaaaaa ctctgctagt 480
cttggcaaac atttgg 496

<210> 363
<211> 673
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(673)
<223> n = A,T,C or G

<400> 363
ccaagaggga gataanacaa acttctcaaa caaaaagaaa agaaaaacga atgattcatc 60
tgctttaatc agtgtgatta atgcagcacc cattgccccg ggaaccgttt ctgctgtact 120
atctggatac taaaatgtta cggaagtagc tctttgttct ccctcactct gcccttagtt 180
aatagaaatt cagactcgcc aagtaaggct ttgtgcatag tgtcttcatg tcgcgtatag 240
ttgagcgcgt tcttagcagt tggcttcatg gacagctcat tagtgttttg acttttctta 300
cccagcgtta attgaattct tgcttttaga caacttcctt tttgtagtgg tgaaccttgc 360
cctttagtac agttcaagtg aatctggata attgttcatc tttgctttag cttagatacc 420
atgtagtggt ctgtggctac aggaagctgg ttctgtctgc ttccacagtc tgcttaaaaa 480
actgtctgac ttcgtgaata tagagaccaa gtttaccact tctgatgaag agaccaatta 540
agattcattc ctcattctgt ttctttccag tgggagaaga gtccccatga aataagatga 600
aactgattcc atgcactagt acatgtaggc ttctcccttg cgcaaagctt aacaatttgt 660
aggaaacttt ggg 673

<210> 364
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

<400> 364
ccaaatgttt gcncaagact agcagagttt ttcttttaaa cattctgtat gaaatatgtc 60
agactggggg acgggggatc tcttctaatt cattgttttt cttttaaaca ttgtgcacaa 120
gcttatattc acatagaaag catatacatc ttataaatca cagacttttt tttaagtagt 180
actccagttt atcagctcat tttacacaca tatttaggca acagaatgta taaatctacc 240
gcaatacaga ggacacacta tccagaaaag aatgaacaaa gaacaggctg ttgcaaaaat 300
atttagtccc tttacacata tagtcaaact tcattaatgc aaaaaatgta gtggttatta 360
aatgtctgaa agaatcagta tgtatgattg agattgttaa tctctgagta taacacatat 420
tgttcatctc agagttgttt tgttttaaag ccgtggtaga tgcttctctt taaatgtgca 480
ttttttagaa actgg 495

<210> 365

```
<211> 291
<212> DNA
<213> Homo sapien

<400> 365
aactgacaag cccttgcgcc tgcctctcca ggatgtctac aaaattggtg gtattggtac      60
tgttcctgtt ggcccgagtg gagactggtg ttctcaaacc cggtatggtg gtcacctttg     120
ctccagtcaa cgttacaacg gaagtaaaat ctgtcgaaat gcaccatgaa gctttgagtg     180
aagctcttcc tggggacaat gtgggcttca atgtcaagaa tgtgtctgtc aaggatgttc     240
gtcgtggcaa cgttgctggt gacagcaaaa atgacccacc aatggaagca g              291

<210> 366
<211> 277
<212> DNA
<213> Homo sapien

<400> 366
ctggatggtg cctcagaagg tgcattctgc ttctgcaggg gcttgaaaca ccaaggcact      60
ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg     120
gggtagcccg cagtccaccc tgtccttggc tggcacggca cactggtttg cagacaggcc     180
cacgtactcc tcagcagagc tggaggacaa gcaaggccag gaccagcccc agcatgcaga     240
gcgctctggc agccatgacc accgtgggct ccgggac                              277

<210> 367
<211> 311
<212> DNA
<213> Homo sapien

<400> 367
ccagagctgc ggggcctcag tacacggagc tgttccggat gccacagcac agcaccatgc      60
tcaggatcat ctcgaagatc atgatcacag cgaccacgat ggcagcaatg ccgatgaggt     120
acagcttccc ggagaagagg tcatcgatct tctggtggca gtcctccttg aagaggttgc     180
tgatgatgtt gctgcccgag ggacacaaat tgttcttgag cactgaggtg gtcaaagcag     240
tcagtgtgct ggagccacag cagtcaagcg tctcgtggaa ggtcttcacc acagccttgg     300
cgttgttggc g                                                          311

<210> 368
<211> 384
<212> DNA
<213> Homo sapien

<400> 368
ccaaaggggt ctctagctgc tgctctgctg ctcctgctca tggatgagtt tggcgatggg      60
gccggtgatg ccgcctatca aggtccagta ctcatcgaag ctgatgcgcc catcaggatt     120
ggcatccagg ttctggatga gcttatccgc agccttccgg ttccctgtgt ccgacagcat     180
gtggttcagc tctttctgga gcatctcgcg gaagctgctc ttgctgatct tgttcttgac     240
caggctgtac ctagacacat atttgtagaa gttttccacc aggacaatga ctgccttctc     300
cagctccgtg tagcaagtct gacatctccc tgcttcgcct gctggcgggg cctaaggcgg     360
gggccaagcc cagttacagc ccag                                            384

<210> 369
```

<211> 216
<212> DNA
<213> Homo sapien

<400> 369
ccaagtgcca ggtggctttc agcagcttcc tacgatcagc cgaagaaagc agaagctctg 60
gaggctgcca tcgagaacct caatgaagcc aagaactatt ttgcaaaggt tgactgcaaa 120
gagcgcatca gggacgtcgt ttacttccag gccagactct accataccct ggggaagacc 180
caggagagga accggtgtgc gatgctcttc cggcag 216

<210> 370
<211> 561
<212> DNA
<213> Homo sapien

<400> 370
ctggctcctt cttttgtggt cgtttggggg atgggctggt ttggggttta ggtgcagaga 60
atggtttggg gccactgcgt actggaccac tctgagcctt cagggcaggg ttcttgtgag 120
tcttcatgtc atcagataca tgtttcaggg catgtgtaat gctctccccc tgattaatct 180
gcgcgaacag tgctgagcgg gaagcagact catctgagcc tgaactggta gagactgggg 240
gaggaggggg gcctggtgga gggggaggag gacctgatcc ggcagagggt ccagatggca 300
gtccgctcag ttcttttgcc acaggccccg ttttgctcca ggccagtccg gtggtatgga 360
actccttaat gtaagcctgc agctctgtcc atatacttaa ataagctttg acccagtcta 420
catgcttctt atccacatct ttgtactctt tgaggactcg gtttgtataa aacatggcgg 480
catcattcat ttctttcgca taagggccag gcttgggagc catagccacc cagcccaggg 540
cctggatact ttcgctgaca g 561

<210> 371
<211> 518
<212> DNA
<213> Homo sapien

<400> 371
cccacttcca tcgctctctg gtgtgaggca cagcgagggc agcatctgga ggagctctgc 60
agcctccaca cctaccacga cctcccaggg ctgggctcag gaaaaaccag ccactgcttt 120
acaggacagg gggttgaagc tgagccccgc ctcacaccca cccccatgca ctcaaagatt 180
ggattttaca gctacttgca attcaaaatt cagaagaata aaaaatggga acatacagaa 240
ctctaaaaga tagacatcag aaattgttaa gttaagcttt ttcaaaaaat cagcaattcc 300
ccagcgtagt caagggtgga cactgcacgc tctggcatga tgggatggcg accgggcaag 360
ctttcttcct cgagatgctc tgctgcttga gagctattgc tttgttaaga tataaaaagg 420
ggtttctttt tgtctttctg taaggtggac ttccagcttt tgattgaaag tcctagggtg 480
attctatttc tgctgtgatt tatctgctga aagctcag 518

<210> 372
<211> 335
<212> DNA
<213> Homo sapien

<400> 372
ctggaggctg ggtgcaccct gcccagatcc acacctgtac cccggcggaa aggctcatgg 60
gcattgaaga cggtggtgaa aaagccaaag ggaaaagcac caacaccaaa tgagaagtgg 120

```
aagcccccgg tatcaccaaa tggctggaat ccccctctgc tctccggagc tggtctctgg      180
ccctgggggc ggggtggagt tttaatctg ggatcctggg gcttctggct ccctcgccca       240
taaagcggga caaccttctc tctgctgatc ccagctttac atactggaca ctcttgccgt      300
tctggccgtg tctccagcca ctgatgaaga catgg                                 335

<210> 373
<211> 467
<212> DNA
<213> Homo sapien

<400> 373
ccactagctg aatcttgaca tggaaggttt tagctaatgc caagtggaga tgcagaaaat       60
gctaagttga cttaggggct gtgcacagga actaaaaggc aggaaagtac taaatattgc      120
tgagagcatc caccccagga aggactttac cttccaggag ctccaaactg gcaccacccc      180
cagtgctcac atggctgact ttatcctccg tgttccattt ggcacagcaa gtggcagtgt      240
ctccaccacc tatgatggtg atgcagcccc tagaagtggc tttcaccacc tcatccatga      300
gagctttggt tccccgggca aaagcttccc attcaaatac ccccacagga ccattccaca      360
caatctgctt agcccgagtg acagcctcag catacttctt gctgctttca ggaccacagt      420
ccaagcccat ccagccagca ggtacgccag aagccacagt ggcttgg                    467

<210> 374
<211> 284
<212> DNA
<213> Homo sapien

<400> 374
tttccgtaaa agcgtgtaac aagggtgtaa atatttataa tttttatac ctgttgtgag        60
acccgagggg cggcggcgcg gtttttatg gtgacacaaa tgtatatttt gctaacagca       120
attccaggct cagtattgtg accgcggagc cacaggggac cccacgcaca ttccgttgcc      180
ttacccgatg gcttgtgacg cggagagaac cgattaaaac cgtttgagaa actcctccct      240
tgtctagccc tgtgttcgct gtggacgctg tagaggcagg ttgg                       284

<210> 375
<211> 307
<212> DNA
<213> Homo sapien

<400> 375
cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat       60
ttgatgactt ccgagaagca tattattggc tccgtcataa tactccagag gatgcgaagg      120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaattttag      180
tggacaataa cacatggaat aatacccata tttctcgagt agggcaggca atggcgtcca      240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggtcattt      300
ttggagg                                                                307

<210> 376
<211> 650
<212> DNA
<213> Homo sapien

<220>
```

```
      <221> misc_feature
      <222> (1)...(650)
      <223> n = A,T,C or G

      <400> 376
ccattgnctn ctnacgtgat gtcatcatct gccaggtcat cttggcaaaa gtcggagcat     60
ttctcagtca ctgcaaagta gcccttctcg ttggagcacc ggaagagacg tgtgtgtttc    120
atgtactcgg catcgtcatc atagggcttc tgtgccccaa tgcccaccca gaagaagttc    180
tcaggctcct caccttcgtt gataacctgc ttgctgtagg aggtgtcaaa catggtgttc    240
aggatgtctt ctgccaactt ggcttcgtca gggtctgatg cccggcccac ccaggcatac    300
acgatgccct ggttgtcctc actctcaaag ggaaccttga ggatgaagca gaactcggag    360
ttgaggaggc tggagtcggt gttgatctgg atgcaccggg tgcagagggc gctgccgttg    420
gtgcggatct ggtagaggct gggctgttgg gcgccctgga ccgccttcct cttgccccgg    480
tggatgatga acttcctctt gaaatgggac aggaacttgg ggttctcctg ctgctgcgtc    540
atgcgtacca cctccagctt cccagggaag aggctctcga acttcttttg caggctgaag    600
gtgaaggtga cccacccata ttgggaggct ttcacggccc tgccagaagt               650

      <210> 377
      <211> 306
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(306)
      <223> n = A,T,C or G

      <400> 377
tctagatgca tgctcgagcg gccgccagtg tgatggganat ctgcagaatt cgcccttcga     60
gcggccgccc gggcaggttc gggtgctgcc ttcacctgcc aggcccttcc ccgctagctt    120
ggggcgagca gagctgcgtc cagtggaact aaagccgttc caggattatc aaaaactgag    180
cagcaacctt gggggacctg gatcatcacg gactccccca actggaaggt ccttctctgg    240
cctcaattcc cgtctcaagg ccacgccttc cacctacagt ggagtcttcc gcacccagcg    300
cgtcga                                                               306

      <210> 378
      <211> 199
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(199)
      <223> n = A,T,C or G

      <400> 378
ccacangtgg cacttgggtg tggctcctct gttatttgtc ctcatgtgag aaagcagatc     60
atctccaaat cttgccattt gtatactttt ggtggagact tggatgtcat atcttctttg    120
ttttgggttt tcttccctag cttattttgt ggcttttaaa gaagtggatt gtattgtgag    180
atcctgtgat tcctggtgg                                                 199
```

<210> 379
<211> 216
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 379
ccagggcang tcatcaagag gggcattgtc ttgcatgcgg cctgccgtgt ccaccagcac 60
cacgtcaaag ccttggttac gtgcaaaagc aatggcttcc atggcaatgc cagcagcatc 120
cttgccatag cccttttcaa acaactgcac catggtgcgg ccaccatgct tctctggagg 180
gtgtagggca ctcaaacgcc gggtgtgtgt acgcag 216

<210> 380
<211> 555
<212> DNA
<213> Homo sapien

<400> 380
ccatgggcct tcctttccac taaaaggaat tccgaacagc aaaaagaagg tcttgagata 60
gtgaaaatgg tgatgatatc tttagaaggt gaagatgggt tggatgaaat ttattcattc 120
agtgagagtc tgagaaaact gtgcgtcttc aagaaaattg agaggcattc cattcactgg 180
ccctgccgac tgaccattgg ctccaatttg tctataagga ttgcagccta taaatcgatt 240
ctacaggaga gagttaaaaa gacttggaca gttgtggatg caaaaaccct aaaaaaagaa 300
gatatacaaa aagaaacagt ttattgctta aatgatgatg atgaaactga agttttaaaa 360
gaggatatta ttcaagggtt ccgctatgga agtgatatag ttcctttctc taaagtggat 420
gaggaacaaa tgaaatataa atcggagggg aagtgcttct ctgttttggg atttgtaaa 480
tcttctcagg gtcagagaag attcttcatg ggaaatcaag ttctaaaggc tttgccccaa 540
gagatgatga ggcag 555

<210> 381
<211> 406
<212> DNA
<213> Homo sapien

<400> 381
ctgcaccagg tgggcctcta ggtcccatta agcccattgg tccagggcca agtccaactc 60
cttttccatc atactgagca gcaaagttcc caccgagacc agggggccca ggaggaccag 120
gtggaccagg agggcctgtg ggaccatctt caccatctct gcctgggggg cctggtggac 180
ccctttctcc acgtggtcct ctatctccgg ctgggccctt tcttacagtt tcctcttgta 240
aagattggca tgttgctagg cataaggtta ctgcaagcag caacaaagtc cgcgtatcca 300
caaagctgag catgtctagc acttagacat gcagactcct tgtgtcgcag agcccctggg 360
tcaccggcgg aggtatcacc tggcgggcgc gggcatgcag tcgtgg 406

<210> 382
<211> 528
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(528)
<223> n = A,T,C or G

<400> 382
ctgagcagtt tgtgggtntn tcttcccgca agtttcagga agtattcaca aaagaaaaat 60
acatttttc ccccaggggt ggggcaagga cagtggagag agtgctagga aatgagtccc 120
ctgggaaagg ggaccgggcc gtgatgttaa atatctccgg ctcccaagtg actggatttg 180
cctaggacct tcagaccaac agacttcaga ccctcagacc tgccccgggg ccaggtggag 240
aaagtgaggg ccgtacaagg aagtgaaatt ctgagttgtt ggggctaagc ctgacccccct 300
ctccatgctc cccgccccaa cccactctgg cctcagtaga tttttttttc agttgtggtt 360
gttgcccagg ctggagtgca gtagcgccat cttggctcac tgcacctcca ccttccgggc 420
tcaagcgatt ctccagcctc agcctcctga gtagctagga ctgcaggtgc tccaccacgc 480
ccggctaatt tttgtatttt tagtagagat ggggtttccc catgttgg 528

<210> 383
<211> 335
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(335)
<223> n = A,T,C or G

<400> 383
ccatnttgag tctactcctg cgtcttgtgc cctagcaccc cgagaaccgt cagtttgagc 60
cagatggaag ctgagctgaa cacattacga tggatgatgg aaacataaga ctatcaagaa 120
atccaagtgg taatgggcga agtttattca gcatccggca atggacttat cgtagttggg 180
gaaacgggtg ttccgaataa tatcctggaa gttatcagga cacctatttt aaatataggc 240
ctgaattttg taaagtaata tttaaggtgg tccgtgataa ttaaataaaa tgcttaattc 300
atgtggcgaa aaaaaaaaaa naaaaaaaaa aaaaa 335

<210> 384
<211> 333
<212> DNA
<213> Homo sapien

<400> 384
agtccaatac ggctattggg gttgtagcag ctttcagagg aaattagtgg tctgggcttg 60
cctccagctc cccaggggca gccccagtag ctacactgtc cagacagcac aagaccaggc 120
tggtgtcacg tccatccgag cgctgcctca gggatcgata aagtttcact gcagaaagtc 180
tccactgcgg tatgctgaca tctgccctga accttcaccc tacagcatta caggctttaa 240
tcagattctg ctggaaagac acaggctgat ccacgtgacc tcttctgcct tcactgggct 300
ggggtgatcc ttggtgcctt tgtttccaca agg 333

<210> 385
<211> 343
<212> DNA

<213> Homo sapien

<400> 385
ctgtgacacc tcaggttgaa agggtcttcc tccttgaaca cccaccgagg ggcctggagc 60
aacagccagc cgatatggac ttctagctgc accgggtcac tgagggtgga gaggtttgtc 120
tggcacctgt actctccact gtcgtcgact gtggcagcgt caatgaagta gctcgaggcc 180
tggcttgaga tgaggctctc attgtgaaac cactgtgtgg aattgtcctc aggggagtag 240
gctccctggc acttcagagt cacactgtcc ttctcgagca ccctgtacca ttgaggctcc 300
aggaacacca cagcctttgg gagatcttca gtccgcatgc caa 343

<210> 386
<211> 244
<212> DNA
<213> Homo sapien

<400> 386
tattctttga ttcttggcaa ataggtgaga gaactaatag caaccaggca actgaggacg 60
aagtcaaaaa gtcggtaaca gaagaatgga atcagccaac ccacttgata agaaattgct 120
ccataaacca gcattgaact gattataaac ataagaacag agacggcaaa aagaacacag 180
gcattatcag ccattctctc agacgaatag taattaccga tgacttcata ctgaatgttg 240
acag 244

<210> 387
<211> 504
<212> DNA
<213> Homo sapien

<400> 387
atctggagtc cagcctcagg gatgcgctac tttccattct ctgcattgaa cattcgttct 60
gtcagcatcc gctccagctt cactgcatca gcggcaaact tgcggatccc gtcagagagc 120
ttctccacag ccatctggtc ctcgttgtgc aaccaacgga aagacttctc atccaggtgg 180
attttttcca ggtcactggc ttgggccgcc ttggctgaga gcacaggcac cagcttggcg 240
ttgtcctgca gcagctctcc caggagcttg ggtgggatgg tgaggaagtc acagccggcc 300
agtgctttga tctcgcccgt gttgcggaag gaggcgccca tgacaatggt tttgtagcta 360
aacttcttgt agtagttgta gattttagtg acactcttta ccccagggtc ttccaggggc 420
tcataggatt tcttgtcggt gtttgccaca tgccaatcaa ggatgcgccc aacaaatggg 480
gagatgaggg tcacacccgc ctcg 504

<210> 388
<211> 450
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(450)
<223> n = A,T,C or G

<400> 388
gccaaagtgc tgcntgaatt ccactccctt ggttttcgcc tgcccagcgt tgctgtttgc 60
gtggagggtg gggggagctc agtggcaggg aatcagcggt ccgtggggtc gtggggacgg 120

gaacatgtgc ccgaccgctc catcccctcc tcctccttag gatgcataac ctaccttgtc 180
ttttttttt taaattttnt ttccaggtan agtagctntt tgtacataaa naatacttga 240
aaaattaatt gtatgatgta tgaaaanaca nagtctccta gttttgtatn ttgttgtatg 300
actgccatga gttccaccaa aaagccactn tattttggtc tntgtgacat tttaaatgcg 360
tgacaaaagt gagcaaataa agngaggaan aaatntatnt atganataat atanattgta 420
ttgaaatcta aaaaaaaaaa aaaaaaaaaa 450

<210> 389
<211> 297
<212> DNA
<213> Homo sapien

<400> 389
cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccgt 120
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 390
<211> 223
<212> DNA
<213> Homo sapien

<400> 390
ctgggctgga gagttggtgc tggcaaaaca gtccttcccc tggggccggt tcttacccag 60
gtccagagaa accaacgcgg gatgtcagac ttcaccaaaa ggactttctg gttgcccctg 120
gctggcttcc tggaggcgtt cgcctctagt ttctcaggga tggagcgaga gcccagccag 180
agaacagtaa gaggagctgc tctcctatct gcactcaccc agg 223

<210> 391
<211> 365
<212> DNA
<213> Homo sapien

<400> 391
ctgaggaaga aatgaaaaaa gaccctgtcc ctcatggccc gcccactggc ctcctgtgaa 60
ctctgtcctg ttgccaaccc cagatgaagt cagccaaaaa gtgctttcca catcctctct 120
ctggggctgc ccagcctgac cgtaggggat ccactggcag agccaaggtg gatgctggtg 180
cctgaagctg gaagccagca ggacatgaga cccctcctgt agcaggaagt ggttctagaa 240
ctcccagcag aacagaacgg aaaaggagct gattggggat agaatgagtt ctgctaaaca 300
gccagatgct ctgagagagg tgacactgga ctgtctcgga ggtgtgtgca gatggctaca 360
ggtgg 365

<210> 392
<211> 302
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

```
      <222> (1)...(302)
      <223> n = A,T,C or G

      <400> 392
ccaagagcta caatgagcag cgcatcanga cagaacgtgc aggtttttga gttccagttg      60
actgcagagg acatgaaagc catagatggc ctagacagaa atctccacta ttttaacagt     120
gatagttttg ctagccaccc taattatcca tattcagatg aatattaaca tggagagctt     180
tgcctgatgt ctaccagaag ccctgtgtgt ggatggtgac gcagaggacg tctctatgcc     240
ggtgactgga catatcacct ctacttaaat ccgtcctgtt tagcgacttc agtcaactac     300
ag                                                                    302

      <210> 393
      <211> 213
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(213)
      <223> n = A,T,C or G

      <400> 393
ccaataatca agnacaaana ctggatttga ggatggatca gttctgaaac agtttctttc      60
tgaaacagag aaaatgtccc ctgaagacag agcaaaatgc tttggaaaga atgaggccat     120
acaggcagcc catgatgccg tggcacagga aggccaatgt cgggtagatg acaaggtgaa     180
tttccatttt attctgttta acaacgtgga tgg                                  213

      <210> 394
      <211> 334
      <212> DNA
      <213> Homo sapien

      <400> 394
cctacccata atccagagag gcttgcccag aggaggacta cgtgggggac gtgccaccag      60
aaccctactt gggggcggga tgtcactccg aggtcaaaac ctgctccgag gtggacgagc     120
cgtagctccc cgaatgggct taagaagagg tggtgttcga ggtcgtggag gtcctgggag     180
agggggccta gggcgtggag ctatgggtcg tggcggaatc ggtggtagag gtcggggtat     240
gataggtcgg ggaagagggg gctttggagg ccgaggccga ggccgtggac gagggagagg     300
tgcccttgct cgccctgtat tgaccaagga gcag                                 334

      <210> 395
      <211> 174
      <212> DNA
      <213> Homo sapien

      <400> 395
ccagatgagg aaaaaaatta ggaaggagat gaagttttcc aaatttcatg gtatatgctg      60
cacttcccca accttcactc tccatgtagc ctactgggtc tactattcca caaagtggct     120
caacctccaa atgacctctg gtttacccct attaaaatcc caaaggactt tcag           174

      <210> 396
      <211> 140
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(140)
      <223> n = A,T,C or G

      <400> 396
ctgcaaagcc ttgtgtaacn ttctccagca tttggaccca gtacgtgaaa gcccacaaca      60
cgttcattgt ctttagtatt acagattatt tttgcataac atttgttgtt atctcttgac     120
ggaatcgtcc attccaatgg                                                 140

      <210> 397
      <211> 318
      <212> DNA
      <213> Homo sapien

      <400> 397
cctcgcctgg agggcccccg ggcagcacag ggaggacgag cttgtccagc agagggtctg      60
gcagagggtc ccgcagaggt ttgggcaggg ggtctgacat ccctggctcc tgctctggct     120
ctggctgccg ggatttgcac aggcccaggt gcatacagat gccgtttgag tcagtctggt     180
tctggaagta gtcgatgacc agggggaagt agtcgtcaag cacttggttg cactggggca     240
tgagcagctt caaggggagg acgttgcact cctgctccag gaacttcctc atcgtgtcct     300
ggaaaatggc ctccttgg                                                   318

      <210> 398
      <211> 517
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(517)
      <223> n = A,T,C or G

      <400> 398
ccttncttcg ccatccattc atcgaccctc tccagcactt gctgcaggct tggctgacca      60
tccaccatgg cttgaataat cccggtgagc tctgtacaga atggggtaag ctgtggatgg     120
actacaggct ggacatacat gtgaaaggta gactcaatct ccatggtccg gccatttagc     180
tttaggatgg ggaactcgat gatttcctga ggatgaatct gtggcttgtc gcacgtggcc     240
tcaaagtcca gcactaaaaa gtagtgatac ctctggagag ggaaggacac cattgccgcc     300
atggatgcgc caaagccgtg ggccgccagc tttctggtgg atatggagca gaactccgga     360
acaccacagg gagaaaataa gtgggagccc agcacttttc ttgctcttga aagtaaatac     420
gaagaaaatc gagctgctcc agtctgtaaa ggtgctagca ttgaacatcc agaagcatct     480
aaaactctcc ttacttcgaa gatgccaaga ccggcag                              517

      <210> 399
      <211> 329
      <212> DNA
```

<213> Homo sapien

<400> 399
ccaacctcag gcaacgggtg gagcagtttg ccagggcctt ccccatgcct ggttttgatg 60
agcattgaag gcacctggga aatgaggccc acagactcaa agttactctc cttcccccta 120
cctgggccag tgaaatagaa agcctttcta tttttggtg cgggagggaa gacctctcac 180
ttagggcaag agccaggtat agtctccctt cccagaattt gtaactgaga agatcttttc 240
tttttccttt tttcggtaac aagacttaga aggagggccc aggcactttc tgtttgaacc 300
cctgtcatga tcacagtgtc agagacgcg 329

<210> 400
<211> 451
<212> DNA
<213> Homo sapien

<400> 400
ctggcttcac tgctcaggtg attatcctga accatccagg ccaaataagc gccggctatg 60
cccctgtatt ggattgccac acggctcaca ttgcatgcaa gtttgctgag ctgaaggaaa 120
agattgatcg ccgttctggt aaaaagctgg aagatggccc taaattcttg aagtctggtg 180
atgctgccat tgttgatatg gttcctggca agcccatgtg tgttgagagc ttctcagact 240
atccaccttt gggtcgcttt gctgttcgtg atatgagaca gacagttgcg gtgggtgtca 300
tcaaagcagt ggacaagaag ctgctggagc tggcaaggtc accaagtctg cccagaaagc 360
tcagaagcta aatgaatatt atccctaata cctgccaccc cactcttaat cagtggtgga 420
agaacggctc agaactgttt gtttcaattg g 451

<210> 401
<211> 180
<212> DNA
<213> Homo sapien

<400> 401
ccaggaagca ggccagggga ttggcagcac tgcccagcac cacagccagg tggtaggcca 60
gacgcccgta gggtaagcag gaaaagctct gcacggcagg cagcacgcca ttggtcagcg 120
cgttggtggc ggccaacagg cccagcaggc aggcactgcg ggctgataga agctgatagg 180

<210> 402
<211> 385
<212> DNA
<213> Homo sapien

<400> 402
ccaggccacc tgtgcggggc tcctcgatgt ggaaggttcg ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgttgtag ggcatgctga 120
agtccggtgt cggcaggttc accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggctgttga agaggggact ctcttcccag tccactggct 240
tggctgctac catgctgggc acaagggcgc tgaggacaga tgggctgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggtccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttggtgac tgagttggcc ggcag 385

<210> 403
<211> 440

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(440)
<223> n = A,T,C or G

<400> 403
ctgtttaacc agnaacccgg ggggtcaccc cccacagaat gtacatgaaa cactagagga 60
ctgcatgttt ttccctgaga gaagcgtaag acaaacagaa gtcaaaaagt agtcactggg 120
agcgccatcc ttctaagcaa atcctccctt tcccttttgg aggatttgcc cgaactacgt 180
agccagtcag cacttagacc acctgcctcc tcccccccct ataaacccac cactcccctc 240
ctcctttccc aaaccacttg gggtgtccta agccctcact gccccaagcc caaaatatca 300
gctaagatcc ttgtcagtat ttccacagtc atacctaatg aattgggaag tggggcccct 360
aaaaaccaat tcacatctat gcacttgttt ccactggatt tggcagacag gctttttag 420
ttaccgtaac cagatcttaa 440

<210> 404
<211> 239
<212> DNA
<213> Homo sapien

<400> 404
cctacgaaaa actcccggcc ggtgaagaga acgtcagtgc catccagcgt cgcgttctcg 60
tctcctattt ccacaattcg gagccccagg tcttgcaggg ctttgcggac tccatcgacc 120
tctggcctac gagcggggct ccagggccgc gtgattaggg ccgtgtcccc ttggatcacg 180
gccgtgtcgc caagcagcgg tcccagcggc aatgactcct caggtggcag ttctagcag 239

<210> 405
<211> 261
<212> DNA
<213> Homo sapien

<400> 405
ctggagaggc agcccttcac cggatgccca gctccgtgcc cctgcgggcc ccagcacagt 60
ttaccttctc cccccacggc ggtcccatct actctgtgag ctgttccccc ttccacagga 120
atctcttcct gagcgctggg actgacgggc atgtccacct gtactccatg ctgcaggccc 180
ctcccttgac ttcgctgcag ctctccctca agtatctgtt tgctgtgcgc tggtccccag 240
tgcggccctt ggtttttgca g 261

<210> 406
<211> 641
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(641)
<223> n = A,T,C or G

```
        <400> 406
ctgctcccgg gcntggtggc agcaagtaga catcgggcct gtgcagggcc accccccttgg      60
gccgggagat ggtctgcttc agtggcgagg gcaggtctgt gtgggtcacg gtgcacgtga     120
acctctcccc ggaattccag tcatcctcgc agatgctggc ctcacccacg gcgctgaaag     180
tggcattggg gtggctctcg gagatgttgg tgtgggtttt cacagcttcg ccattctggc     240
gggtccagga gatggtcacg ctgtcatagg tggtcaggtc tgtgaccagg caggtcaact     300
tggtggactt ggtgaggaag atgctggcaa aggatggggg gatggcgaag acccggatgg     360
ctgtgtcttg atcggggaca cacatggagg acgcattctg ctggaaggtc aggcccctgt     420
gatccacgcg gcaggtgaac atgctctggc tgagccagtc gctctctttg atggtcagtg     480
tgctggtcac cttgtaggtc gtgggcccag actctttggc ctcagcctgc acctggtccg     540
tggtgacgcc agaccccacc tgcttcccct cgcgcagcca ggacacctga atctgccggg     600
gactgaaacc cgtggcctgg cagatgagct tggacttgcg g                         641

        <210> 407
        <211> 173
        <212> DNA
        <213> Homo sapien

        <400> 407
ccaggtactg gcacaatcat gtctggatgg gggtggtggt gtcctgtagg cagagaaaca      60
ggaaattgtc gtagtcagta tcgagcagcg tggcctcgtt cgccaccgta tagttgatct     120
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag            173

        <210> 408
        <211> 165
        <212> DNA
        <213> Homo sapien

        <400> 408
ccactgtctg cagccatggc agaaagtgct caaagtccag caccttcaca ttcatctcat      60
cactcttggg gttccccagg accttgagca cctcggcgtt ggtagggttc tggcccaggg     120
ccctcatcac atccccacac tggctgtaca ggatcttgcc atcac                     165

        <210> 409
        <211> 329
        <212> DNA
        <213> Homo sapien

        <400> 409
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggccgcg      60
tacttgttgt tgctttgttt ggagggtgtg gtggtctcca ctcccgcctt gacggggctg     120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacctat gagacacacc     180
agtgtggcct tgttggcttg aagctcctca gaggagggcg ggaacagagt gaccgagggg     240
gcagccttgg gctgaccaag gacggtcagc ttggtccctc cgccaaatac cgccggataa     300
gcaccactgt tgtctgctga ttgacagaa                                       329

        <210> 410
        <211> 235
        <212> DNA
        <213> Homo sapien
```

<220>
<221> misc_feature
<222> (1)...(235)
<223> n = A,T,C or G

<400> 410
ccatcagnga gaaaggtgtt tgtcagttgt ttcacaaacc agattgagga ggacaaactg 60
ctctgccaat ttctggattt ctttattttc agcaaacact ttctttaaag cttgactgtg 120
tgggcactca tccaagtgat gaataatcat caagggtttg ttgcttgtct tggatttata 180
tagagctttt tcatatgtct gagtccagat gagttggtca ccccaacctc tggag 235

<210> 411
<211> 294
<212> DNA
<213> Homo sapien

<400> 411
aattaaggga agatgaagat gataaaacag ttttggatct tgctgtggtt ttgtttgaaa 60
cagcaacgct tcggtcaggg tatcttttac cagacactaa agcatatgga gatagaatag 120
aaagaatgct tcgcctcagt ttgaacattg accctgatgc aaaggtggaa gaagagcctg 180
aagaagaacc tgaagagaca gcagaagaca caacagaaga cacagagcaa gacgaagatg 240
aagaaatgga tgtgggaaca gatgaagaag aagaaacagc aaaggaatct acag 294

<210> 412
<211> 433
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(433)
<223> n = A,T,C or G

<400> 412
cctgagaagc cagaggcagg tggagagggg gtggaaagtg agcagcgggc tgggctggag 60
ccgcacacgc tctcctccca tgttaaatag cacctttaga aaaattcaca agtccccatc 120
cacaaaaaaa aaaanaanaa aaatttcagg gantaaaaat anactttgaa caaaaaggaa 180
catttgntgg cctggggggg catctnantt tntntagcnc cagngattcc ctccccnccc 240
cacccatcac atanatgtaa cacctttggt ntaaaatggg gagccgtttc caccntgccc 300
ccntccccgc ccccaggcag ttgccccggn gacacntcaa gacaggancg aggtagtntt 360
tcancancac agttncacaa ggaacagaac agtntctccc gcccagccct gcggcacaag 420
ggattgacac gcn 433

<210> 413
<211> 494
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(494)

```
      <223> n = A,T,C or G

      <400> 413
ccttatttct cttgtcnctt cgtacaggga ggaatttgaa gtagatagaa accgacctgg      60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta     120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg     180
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cgttggtcaa     240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg     300
ctcggaggtt gggttctgct ccgaggtcgc cccaaccgaa atttttaatg caggtttggt     360
agtttaggac ctgtgggttt gttaggtact gtttgcatta ataaattaaa gctccatagg     420
gtcttctcgt cttgctgtgt tatgcccgcc tcttcacggg caggtcaatt tcactggtta     480
aaagtaagag acag                                                        494

      <210> 414
      <211> 294
      <212> DNA
      <213> Homo sapien

      <400> 414
ctgggcggat agcaccgggc atattttgga atggatgagg tctggcaccc tgagcagtcc      60
agcgaggact tggtcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct     120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga     180
ttacagggtt gggaacagct cgtacacctg ccattctctg catatactgg ttagtgaggt     240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcctt gtgg           294

      <210> 415
      <211> 421
      <212> DNA
      <213> Homo sapien

      <400> 415
ccttgcccct gccctcccac gaatggttaa tatatatgta gatatatatt ttagcagtga      60
cattcccaga gagccccaga gctctcaagc tcctttctgt cagggtgggg ggttcagcct     120
gtcctgtcac ctctgaggtg cctgctggca tcctctcccc catgcttact aatacattcc     180
cttccccata gccatcaaaa ctggaccaac tggcctcttc ctttcccctg ggaccaaaat     240
ttaggggcct cagtccctca ccgccatgcc ctggcctatt ctgtctctcc ttcttccccc     300
tggcctgttc tgtctctgag ctctgtgtcc tccgttcatt ccatggctgg gagtcactga     360
tgctgcctct gccttctgat gctggactgg ccttgcttct acaagtatgc ttctcccaca     420
g                                                                      421

      <210> 416
      <211> 342
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(342)
      <223> n = A,T,C or G

      <400> 416
```

ccactttctt tcccacnctg gaaggcggca tctatgactt cattggggag ttcatgaagg 60
ccagcgtgga tgtggcagac ctgataggtc taaaccttgt catgtcccgg aatgccggca 120
agggagagta caagatcatg gttgctgccc tgggctgggc cactgctgag cttattatgt 180
cccgctgcac tcccctatgg gtcggagccc ggggcattga gtttgactgg aagtacatcc 240
agatgagcat agactccaac atcagtctgg tccattacat cgtcgcgtct gctcaggtct 300
ggatgataac acgctatgat ctgtaccaca ccttccggcc gg 342

<210> 417
<211> 389
<212> DNA
<213> Homo sapien

<400> 417
tattaattag gttcttaaga catttagaac accaatttgt gaggataaat tccattcgtc 60
agagcaaaca cagatcgcag gtagccctgg agctgaggaa tagctttgat ttttggtaaa 120
atttgtgagt ccacagcttt ctgatcaatc ttgcgctgct ccgtaatctc atatttctct 180
ttttctgtgt cgaagatctc accttcctgg tgtctgggct tccgcagctt cttcttcttg 240
aagtaagcat cagtaagatg ttttgggatt tttacattgc tgatatcgat tttggttgaa 300
gtggcaatga caaatttctg gtgtgttctt cgtagaggaa ctcgattgag gaccagaggt 360
ccagtcacaa gtaataagcc actagccag 389

<210> 418
<211> 343
<212> DNA
<213> Homo sapien

<400> 418
gtgggaggga gccaggttgg gatggaggga gtttacagga agcagacagg gccaacgtcg 60
aagccgaatt cctggtctgg ggcaccaacg tccaaggggg ccacatcgat gatgggcagg 120
cgggaggtct tggtggtttt gtattcaatc actgtcttgc cccaggctcc ggtgtgactc 180
gtgcagccat cgacagtgac gctgtaggtg aagcggctgt tgccctcggc gcggatctcg 240
atctcgttgg agccctggag gagcagggcc ttcttgaggt tgccagtctg ctggtccatg 300
taggccacgc tgtttttgca gtggtaggtg atgttctggg agg 343

<210> 419
<211> 255
<212> DNA
<213> Homo sapien

<400> 419
cctagcaaga gaatcaccaa atttatggag agttaacagg ggtttaacag gaaggaagtg 60
cctttagtaa gttctcaagc cagaggctgg aggcagcagc taaatcagag gacagcatcc 120
tcagtgaaag tgagccattc ggggtggcat gtcactccag gaataaacac aacttagaaa 180
caaatgattt cgtaggatag cacagtgaca tggtgcactg tgaacctgag gccactgtgt 240
caaactgtgc actgg 255

<210> 420
<211> 261
<212> DNA
<213> Homo sapien

<400> 420
cttctgatga taaccaaccc ctagctacca ctctgtattc atcaggggag gggtataaac 60
cccacatgca agaagaaccc ttgcccccag tgtcaaatgg gatggggatg ctagagttat 120
agtaaagggg aaaccctatg taagctgtta acagagttca caggggtagg gataacccct 180
gttctccagc tcccaaatgt gctcactttc ccagcttctt catccgttca tcaatgctgg 240
caaagttccc ctcaactgtg g 261

<210> 421
<211> 179
<212> DNA
<213> Homo sapien

<400> 421
ccttcctgtt gttgtttcaa atgctgcttg atttctcgta acagatctgc atctatgtaa 60
tacctttctt cagatctgac tgctccaaaa tgattctgca tcctgatttg agacatcaat 120
tcatttagtc ggcccttgaa ctgagtaggt gcatttagtt caccctgaat cgtatccag 179

<210> 422
<211> 424
<212> DNA
<213> Homo sapien

<400> 422
cgaggtccaa atctgatctg cagatgcaga agattcgaca gaagctgcag actaaacagg 60
ctgccatgga gaggtctgga aaagctaagc aactgcgagc acttaggaaa tacgggaaga 120
aggtgcaaac ggaggttctt cagaagaggc agcaggagaa agcccatatg atgaatgcta 180
ttaagaaata tcagaaaggc ttctctgata aactggattt ccttgaggga gatcagaaac 240
ctctggcaca gcacaagaag gcaggagcca aaggccagca gatgaggaag gggcccagtg 300
ctaaacgacg gtataaaaac cagaagtttg gttttggtgg aaagaagaaa ggctcaaagt 360
ggaacactcg ggagagctat gatgatgtat ctagcttccg ggccaagaca gctcatggca 420
gagg 424

<210> 423
<211> 256
<212> DNA
<213> Homo sapien

<400> 423
ctgtggccta gggctacctc aagactcacc tcatccttac cgcacattta aggcgccatt 60
gcttttggga gactggaaaa gggaaggtga ctgaaggctg tcaggattct tcaaggagaa 120
tgaatactgg gaatcaagac aagactatac cttatccata ggcgcaggtg cacaggggga 180
ggccataaag atcaaacatg catggatggg tcctcacgca gacacaccca cagaaggaca 240
ctagcctgtg cacgcg 256

<210> 424
<211> 330
<212> DNA
<213> Homo sapien

<400> 424
ccagccgcat gggagtggag gcagtcatcg ccttgctaga ggccaccccg gacaccccag 60

```
cttgcgtcgt gtcactgaac gggaaccacg ccgtgcgcct gccgctgatg gagtgcgtgc      120
agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac      180
tccgagggag gagctttgcg ggcaacctga acacctacaa gcgacttgcc atcaagctgc      240
cggatgatca gatcccaaag accaattgca acgtagctgt catcaacgtg gggcacccg       300
cggctgggat gaacgcggcc gtacgctcag                                       330

       <210> 425
       <211> 333
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(333)
       <223> n = A,T,C or G

       <400> 425
ctgctccatg gnctcaaagt cagcaccacc cacacccaca atgatcactg acatgggcag       60
gttcgaggca cgcaccacag cctcacgtgt ggcttccaca tccgtcacag caccatcagt      120
cagnagaaac agnatgaagt attgngaggc antcccctga tgtgcagcct gggctgcaaa      180
cctggacctg cccgggcggc cgctcgaaag ggcgaattcc agcacactgg cggccgttac      240
tagnggatnc aganctcggt acnaagcttg gcagtaatca tggtcatagc tgtttcctgt      300
gagcggntgg gatgaacgcg gccgtacgct cat                                   333

       <210> 426
       <211> 411
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(411)
       <223> n = A,T,C or G

       <400> 426
gggtgttcat catgaggatt gcttctgcca tggagctgat ggacgtgggc aggttgctga       60
gaaggtgggg tggaagtgag tgccgggggt gggtgagtgc cctggtcttg ttcatagggg      120
agcctttccc tagcagtgga acgctgtggt cattttctct agcatattcc cttgggaagt      180
ctagatttgc tattaatctg gctgagaatc taagttctgt gccttagaga cagtttgcac      240
tttcccatat tgtgcctggg acagccatat gattttttt cccaccaaac aagtatgcaa       300
acagaaacca gttcaaaggg ggatggtgta aaagatgagg cagtanaaat gcctttgaat      360
ggttttctgt agctaattct ctttaaattt tgtcctgctt tttttcttta t               411

       <210> 427
       <211> 450
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(450)
```

```
      <223> n = A,T,C or G

      <400> 427
acgtgtacaa gtttgaactg gatacctctg aaagaaagat tgaatttgac tctgcctctg      60
gcacctacac tctctactta atcattggag atgccacttt gaagaaccca atcctctgga     120
atgtggctga tgtggncatc aagttccctg aggaagaagc tccctcgact gtcttgtccc     180
agaacctttt cactccaaaa caggaaattc agcacctgtt ccgcgagcct gagaagaggc     240
cccccaccgt ggtgtccaat acattcactg ccctgatcct ctcgccgttg cttctgctct     300
tcgctctgtg gatccggatt ggtgccaatg tctccaactt cacttttgct cctagcacga     360
ttatatttca cctgggacat gctgctatgc tgggactcat gtatgtctac tggactcagc     420
tcaacatgtt ccagaccttg aagtacctgg                                      450

      <210> 428
      <211> 377
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(377)
      <223> n = A,T,C or G

      <400> 428
cagggctata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatggtg      60
acttcttggg agtgggggac caccaggttg cctaaggagg ggtgaacctg cctacgttgg     120
aaatagagct ggncaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc     180
nccgccctcc agcatgggca acataacaag accctgcctc ttaaagataa aaattggaaa     240
acactngtag gaaaaaaagg gtgnttggtc taaataaatn tggattgggn ataaatgacn     300
caaaactatc atgaatttga aagcntttct aatttcttga aagtctgaaa aaagttaaan     360
cncaatttta tctnaaa                                                    377

      <210> 429
      <211> 206
      <212> DNA
      <213> Homo sapien

      <400> 429
gttgctcctc caaagaaggt tggcttcaag gccgtgtcca gggacccacg agcagaggca      60
ctgggggggca aggatctcc aagggggcaa gggatcccta aagggggtag ctcacaggtg     120
agggggttta gggcccctct agggagcgcc tgaggccata cattcaagag tgtccctggt     180
gaggcccagg gaagagccag gactgg                                          206

      <210> 430
      <211> 473
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(473)
      <223> n = A,T,C or G
      <400> 430
ccttatttnt cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg       60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta      120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg      180
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cgttggtcaa      240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg      300
ctcggaggtt gggttctgct ccgaggtcnc cccanccgaa atttttaatg caggtttggt      360
agntnaggac ctgtgggttt gttaggtact gggtgcatta ataaattaaa gctccatagg      420
gtcttctcgt cttgctgtgt tatgcccncc tcttcacggg caggtcaatt tca             473

      <210> 431
      <211> 215
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(215)
      <223> n = A,T,C or G

      <400> 431
cctgtatnaa gctanaaaaa gactaccagc ccgggatcac cttcatcgtg gtgcagaaga       60
ggcaccacac ccggctcttc tgcactgaca agaacgagcg ggttgggaaa agtggaaaca      120
ttccagcagg cacgactgtg gacacgaaaa tcacccaccc caccgagttc gacttctacc      180
tgtgtagtca cgctggcatc caggggacaa gcagg                                 215

      <210> 432
      <211> 391
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(391)
      <223> n = A,T,C or G

      <400> 432
ccagcactgc cacaaacttt ttcagggcca ccaggcgctg cccttccagg accgggaacc       60
tgcccacttc tatccgcagg atgtagtgca gtgcagattc caggtcagcc atgtagatcc      120
tggagcgatc tgccaatttc caaacagtgg gagctatctt gttagcagtg gttggtgcaa      180
ctgtggtctg ggcagcctcc ctggtgagcc cagagagtct ctgcaggtaa gcggtataga      240
aggacctgga ttccatgagc acggggactc gggagacgga gccattccgg aacagcaggt      300
agcaagaggg gaagtcggtg acaccaaact ttctcaccac attggcctct gtgttcagca      360
ccctgcgcac cgccacncct ttgtgctggg a                                     391

      <210> 433
      <211> 420
      <212> DNA
      <213> Homo sapien
```

```
        <220>
        <221> misc_feature
        <222> (1)...(420)
        <223> n = A,T,C or G

        <400> 433
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggctgcg      60
tacttgttgt tgctttgttt ggagggtgtg gtggtctcca ctcccgcctt gacggggctg     120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc     180
agtgtggcct tgttggcttg aagctcctca gaggagggcg ggaacagagt gaccgagggg     240
gcagccttgg gctgacgtag gacggttagt ttggncccctc cgccgaatgc cgcanttcta    300
ctgtcccaca cctgacagta atagtcancc tcatcttcgg cttgggctct gctgatggtc     360
agggtggccc gtgntccccg agttggagcc agggaatcnc tcagggatcc canagggccn     420

        <210> 434
        <211> 239
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(239)
        <223> n = A,T,C or G

        <400> 434
ccaaccanga gagaagggat cgcctggtgc ccagggccca ccaggagctc caggcccact      60
tgggattgct gggatcactg gagcacgggg tcttgcagga ccaccaggca tgccaggtcc     120
taggggaagc cctggccctc agggtgtcaa gggtgaaagt gggaaaccag gagctaacgg     180
tctcagtgga gaacgtggnc cccctggacc ccagggtctt cctggtctgg ctggtncag      239

        <210> 435
        <211> 415
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(415)
        <223> n = A,T,C or G

        <400> 435
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc      60
tatgtatgtg gaatccanaa ctcagtgagt gcaaaccgca gtgacccagt caccctggat     120
gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cctttcggga     180
gcaaacctca acctctcctg ccactcggcc tctaacccat ccccncanta ttcttggcgt     240
atcaatggga taccgcagca acacacacaa gttctnttta tcgccaaaat cacgccaaat     300
aataacggga cctatgcctg tttagggntn taacttggnt actggccgca anaattccat     360
agtcaagagc atcacagnct ctgcatntgg aacttctcct ggctntcaga cctgn          415

        <210> 436
        <211> 152
```

```
      <212> DNA
      <213> Homo sapien

      <400> 436
ccaggattga caggccatcc attcacagcc aggagatgct gggccagtcc ctccaagagg      60
tctccgtcat ggcagtgatg aaaacctaac agggtggccc cctgtgccag ctcaggtgac     120
tggagcccga gggcctgaca ggttcccagc ag                                   152

      <210> 437
      <211> 174
      <212> DNA
      <213> Homo sapien

      <400> 437
ccaggtactg gcacatcatg ctctggatgg gggtggtggt gtcctgtaag cagagaaaca      60
ggaaattgtc gtagtcagta tcgagcagct gtggcctcgt tcgccaccgt atagttgatc     120
ttgaacttct ttggattctc agtcttctct ccaaggacct tcttctcaac acag           174

      <210> 438
      <211> 485
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(485)
      <223> n = A,T,C or G

      <400> 438
ccacggccct ctcggccctc tcgctgggag cggagcagcg aacagaatcc atcattcacc      60
gggctctcta ctatgacttg atcagcagcc cagacatcca tggtacctat aaggagctcc     120
ttgacacggt caccgccccc cagaagaacc tcaagagtgc ctcccggatc gtctttgaga     180
agaagctgcg cataaaatcc agctttgtgg cacctctgga aaagtcatat gggaccaggc     240
ccagagtcct gacgggcaac cctcgcttgg acctgcaaga gatcaacaac tgggtgcagg     300
cgcagatgaa agggaagctc gccnggtcca caaaggaaat tcccgatgag atcagcattc     360
tccttctcgg ngtggcgcac ttcaaggggc agngggtaac aaagtttgac tncagaaang     420
acttccctcg aggatttcta cttggatgaa gagaggaccg tgagggtccc catgatgtcg     480
gaccc                                                                 485

      <210> 439
      <211> 317
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(317)
      <223> n = A,T,C or G

      <400> 439
gggccgtctt cccctccatc gtggggcgcc ccaggcacca gggcagtgat ggtgggcatg      60
```

```
ggtcagaagg attcctatgt gggcgacgag gcccagagca agagaggcat cctcaccctg      120
aagtacccca tcgagcacgg catcgncacc aactgggacg acatggagaa aatctggcac      180
cacaccttct acaatgagct gcgtgtggct cccgaggagc accccgtgct gctgaccgag      240
gcccccctga accccaaggc caaccgcnag aagatgaccc agatcatgtt tgagaccttc      300
agcaccccag ccatgta                                                     317

        <210> 440
        <211> 338
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(338)
        <223> n = A,T,C or G

        <400> 440
ccanaaagac ttcccaggga agatgcttgg ctctctgctc caaggtgggc catggtatag       60
ggccctcgaa gggcttgtgg ctggggtgat cccagggggc attgctcaaa gtgcacagga      120
ggtggcagca gggtcaggcg agttcctgtt ccagggacat caggagggag ggtagaagcc      180
tagggagtgt gcgaggctgc tgggatgagg gagctcaggg gctaccagct aaccagcctc      240
agctcaatgg tttctccatc cttgggtctg tagtcagcaa taccttgcaa cagtggggtg      300
ttggggtctc ggagaagctg ccagaactcc ctttctcc                              338

        <210> 441
        <211> 505
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(505)
        <223> n = A,T,C or G

        <400> 441
ccacacagan tcaccaagcc acagacttgt cttccacaag cacgttctta tcttagccac       60
gaagtgacca agccacacgt actaaaggtt gaactcaaag atatgtacag ggtattaaac      120
aaataccaag gggaacagtt aacttcaata caaggtcgaa atcagcaaca agttctacaa      180
tccagngctg atatcagata caagcttcaa ggacaatttc ttttcgaagg cttattccag      240
tttcgngagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta      300
acccatgcag caaatgctac ncatggtgcn gagtccgttt agaagcattt gcggtggacg      360
atggaggggc ccgactcgtc ttactcctgc ttgctaatcc acnngngctg gaaggnggac      420
agtgaggcca cggatggagc caccnatcca caccgagtnc ttgcgctctg ggggtgcgat      480
natnttgatc ttcatggtgc tgggc                                            505

        <210> 442
        <211> 386
        <212> DNA
        <213> Homo sapien

        <220>
```

```
      <221> misc_feature
      <222> (1)...(386)
      <223> n = A,T,C or G

      <400> 442
cgccaggtga tacctccgcc ggtgacccag gggctctgcg acacaaggag tctgcatgtc      60
taagtgctag acatgctcag ctttgtggat acgcggactt tgttgctgct tgcagtaacc     120
ttatgcctag caacatgcca atctttacaa gaggaaaccg taagaaaggg cccagccgga     180
gatagaggac cacgtggaga aaggggtcca ccaggccccc caggcagaga tggtgaagat     240
ggtcccacag gccctcctgg tccacctggt cctcctggcc cccctggtct cgatggaac      300
tttgctgctc agtatgatgg aaaaggaggg nggacttggc cctggaccaa tgggcttaat     360
gggacctana ggcccacctg gtgcag                                          386

      <210> 443
      <211> 404
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(404)
      <223> n = A,T,C or G

      <400> 443
cctccctctc agagcttgcc ccagggactc tctggccctc agggttcaat gtattctgac      60
caaggccaag ctttcctggg gctcagggaa aatcacactt tgctacccga agctgtatcc     120
cctcagatgc caggaaggcc gtgatcatct gactccaccc tcctgagaca cattctctcc     180
ctgactgtcc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca     240
ngatgcagcc tctgtgaaca ggtgcctgga ggctgggaaa tgaccctgag agggcaggac     300
acagcnaccg ngggcttaag gtgagggngg agagcaagnt tggcccactt tacaattcta     360
gntcagagcc ancccctaac atggngggca tttattcatt tcgg                      404

      <210> 444
      <211> 318
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(318)
      <223> n = A,T,C or G

      <400> 444
catgggctat agtgcgctat gttgatctgg tgttcatgct aagttccgca tcaatatngc      60
gacttcttng gagtggggga ccaccangtt gcctaaggag ggtgaacct gcctacgttg      120
gaaatagagc tggtcaaaac tcctgtgctc atcagtagta gaattgcacc tgtgaatagc     180
caccgccctc cagcntgggc aacatagcaa gaccctgcct cttaagataa aaattggaaa     240
acactggtan gaaaaaaagg ctgtttggtc taaanaagtc tggatngggt ataaatgaca     300
cnaanctatc atgactnt                                                   318

      <210> 445
      <211> 418
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(418)
      <223> n = A,T,C or G

      <400> 445
ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag      60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat     120
aggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt     180
tcgaatccat ttctgtcact agcctggctg gcaaatgttt ctttcttcct ccctcacagg     240
ctataagagc aatgagctgg caacgcccct gagcacactg tctgctgntt aaccaatggc     300
atgtgagagg agggacagag gcagtcttac acaagctgtg ataaaaattg catncagttc     360
aaccagtttc ttacnttatt ctaatgngna ggaagtgtgn gaagagcaca aagtcaga       418

      <210> 446
      <211> 361
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(361)
      <223> n = A,T,C or G

      <400> 446
ctgtccaatn acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc      60
tatgagtgtg gaatccanaa cgaattaant gttgaccaca gcgacccagt catcctgaat     120
gtcctctatg gcccagacga ccccaccntt tccccctcat acacctatta ccgtccaggg     180
gtgaacctca gcntctcctg ncatgcagcc tctaacccac ctgcacagta tccttggctg     240
attgatggga acntccagna acacnacaca agagctcttt atctccancn tnactganaa     300
gaacagcgcg actctatncc ttccaggggg gggggtggg gnntgnggac cttnccgggc      360
c                                                                     361

      <210> 447
      <211> 321
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(321)
      <223> n = A,T,C or G

      <400> 447
ccagganant ggttccccaa aggggacctc acccgccccg agctctggag ccgctgacgc      60
tcgcatccag gacatttgag atgggaatcc aaataggcta cttgnaaaag acgtgctgca     120
ngcagccctg gagagactca tggagttcat tgtacattac tccatctacc gaggcagcgc     180
```

atggcatgac tnaacggctt gnaacaaaca canaaattac caccacaaac attcaggaac 240
caaatataat ctgctatggt cacaccacag acaatgcagg aagaggcttt ttattgctng 300
ngtgngtttt caaatcatgt t 321

<210> 448
<211> 325
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(325)
<223> n = A,T,C or G

<400> 448
ccagcttcaa ctttttagta tagaagatac aggatcacaa aaaggagact acgctttgca 60
aacatagcat caaaattcaa cttttctctt tgcagtttat ccatggngtc agcatacctt 120
gcaagggaag ctacttacat caaataactt ttctatatac atttcctcat tgaccttttc 180
tcaaagaata tcttggtttt gccgaacaaa cataatatag gngtctgcca gatccattcc 240
tggtttctgt ngtgaaggaa aagcaggggg aacaaaataa tatcagggtc tcaatngtga 300
nattattatt taatcatacc ctgan 325

<210> 449
<211> 123
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(123)
<223> n = A,T,C or G

<400> 449
cattaatntt ggaagcgatg gtgtggatta catcagtgtt agggcatggt gtggatatta 60
ttacattann attggaagcg atggtgtgga ttacatcagt gatagggcac ggtgtggata 120
tta 123

<210> 450
<211> 328
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

<400> 450
ctggcaattt tgagctgccg gttatacacc aaaatgttct gttcagtacc tagctctgct 60
cttttatatt gctttaaatt tttaaagaaa ttatattgca tggatgtggt tatttgtgca 120
tattttttaa caatgcccaa tctgtatgaa taatgtaaac ttcgattttt ttttaaaaaa 180

attagatttt agctggagct tttgactaat gtaaagtaaa tgccaaacta ccgacttgat 240
ngggatgttt ttgtaangtt aattttctaa gactttttca catccaaagt gatgctttgc 300
tttgggtttt aactgtttca acntnggn 328

<210> 451
<211> 209
<212> DNA
<213> Homo sapien

<400> 451
ctgccttgtt tcaacagaca tgcaaagatc ctaggagaca gtccccatag accttcagac 60
attaaaaagg gagccgtaca gtttgtttga agcacttcgt cttacccatt tatgcagggg 120
ccccaggaaa cttacacaca gccagaatga ggttcccaaa ggacttacat taattatggc 180
tcttgcttcc tttcacaaat gagctgagg 209

<210> 452
<211> 457
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(457)
<223> n = A,T,C or G

<400> 452
ctgtctantc ccttcaagag ctgtttatag aagcttgaga atggggtaaa aatttctgct 60
agcaaaatca agttcttttt gaaattttat cagtaatcca gaatttagta gtccatgcct 120
tctcactcag catttagaaa taaaaatgtg gtttcttaaa cgtatatcct ttcatgtata 180
tttccacatt tttgtgcttg gatataagat gtatttcttg tagtgaagtt gttttgtaat 240
ctactttgta tacattctaa ttatattatt tttctatgta ttttaaatgn atatggctgt 300
ttaatctttg aagcattttg ggcttaagat tgccagcacc acacatcaga tgcagtcatt 360
gttgctatca gtgtggaatc tgatagagtc tngactccgg ccacttggag ttgtgnactc 420
caaagctaag gacagtgatg aggaagatgg catgtgg 457

<210> 453
<211> 277
<212> DNA
<213> Homo sapien

<400> 453
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactacga gggcgtgatc atgaaaggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgta 277

<210> 454
<211> 198
<212> DNA
<213> Homo sapien

```
      <400> 454
gttaaaagat agtaggggga tgatgctaat aatcaggctg tgggtggttg tgttgattca        60
aattatgtgt tttttggaga gtcatgtcag tggtagtaat ataattgttg ggacgattag       120
ttttagcatt ggagtaggtt taggttatgt acgtagtcta ggccatatgt gttggagatt       180
gagactagta gggctagg                                                     198

      <210> 455
      <211> 608
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(608)
      <223> n = A,T,C or G

      <400> 455
ctgagcaagc taaggaccag gggcaactag accctaataa tgngtacttt tgaaaatgat        60
acaaactacc ttggttgtaa gaagtgcagg ttgaacactt taggagaaca gtcttcaaac       120
tggcaattca aaatttccca ttatatgtga ataaaattgg aaggatgtta aatgtccatg       180
gaaagttact cttgtaagtt aggatgcctt atactgaggc tttanaatga aagtacactt       240
cacaaatgga atagtgaaca taaattacca gaagtcaaga taatagtcat actagtaagg       300
taagcaaggt aaattccctt atacacaaaa attattttga tgaccttttt caataatgaa       360
tctgaaatga agtgttttaa aaagctccct aaacacaaaa cgaacataaa actgcttaat       420
aactttagag ctcatgtaat attcttgctg aaaacagtta ctgaaattac cagcgaaatg       480
atggaatatc tttaaagcag gncactcngt ataatctgga ataatttcat ttgctaactt       540
ttaagaagta ttctctggac tataaatcnt gggcaaatag acttccactt tattattacc       600
ccaaatta                                                                608

      <210> 456
      <211> 467
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(467)
      <223> n = A,T,C or G

      <400> 456
cctggacctg tgtaaacctt caaacactct tttttacatt aggtcgtgaa gttaaatttt        60
ttactgtttc tgtgctacag actcttcaaa gggaaatagt taagtcaatt tcaaagaaaa       120
tgaccagcac atttttaaaa cattagaaat gatttgactt tgactatcta ctgccaaaaa       180
aaggttaagg aatttgtaat gagaagctaa aaactttaag gaattttaag gaactcaaaa       240
caaaaactca ttaaatgtaa ttaaagtgaa ttctacaaat aaagcctctt aatacatttc       300
tataatagtc acttaagact taaattcaaa cactagcaaa ccacaaaatc agactgtntg       360
actgacatcc aaaagataaa tataaatcaa aatccgaccc cagcattagc caaggggtag       420
gtgttcctct tgaggaaggc aggaattcct cttctgccac ctgttgg                     467

      <210> 457
      <211> 183
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(183)
      <223> n = A,T,C or G

      <400> 457
ccaaattttn tactttaaac actgaaaaca gaggaagtta ataaaaattt taacctataa      60
agtcccctgg ttgttagtca ttaacagcag attgtcagat aagactggta aaatgatggc     120
tgctaagcat ttgatgatcc aggcgcagga tgatcaaact gcagcagatc atgcacgtga     180
cag                                                                   183

      <210> 458
      <211> 445
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(445)
      <223> n = A,T,C or G

      <400> 458
gaaaaatata aagccaaaaa ttggataaaa tagcactgaa aaaatgagga aattattggt      60
aaccaattta ttttaaaagc ccatcaattt aatttctggt ggtgcagaag ttagaaggta     120
aagcttgaga agatgagggt gtttacgtag accagaacca atttagaaga atacttgaag     180
ctagaagggg aagttggtta aaaatcacat caaaaagcta ctaaaaggac tggtgtaatt     240
taaaaaaaac taaggcagaa ggtttttgga agagttagaa gaatttggaa ggccttaaat     300
atagtagctt agtttgaaaa atgngaagga ctttcgtaac ggaagtaatt caagatcaag     360
agtaattacc ancttaatgt ttttggcntt ggactntgag ttaagattat tttttaaatc     420
ctgaggacta ncattaatgg gacag                                           445

      <210> 459
      <211> 426
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(426)
      <223> n = A,T,C or G

      <400> 459
cctatgatan cttctctagc tatcatactc caatcagcaa aaaatgagaa aatgttgaga      60
aatagaagat aattcctcat ttaaggccac cttctagaat ttgtgcttaa gattctgctt     120
tcttctcatg ggccagcact tcggcaactg gcaaaaatta ggtgtacagg gatctaggta     180
atactgttta tttgagcaat aatatattgt gctaacgttc aggcatccta ttactgagaa     240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg cgacagggaa aaataccatc     300
```

```
agttaaatat ccatagtcct agagcattta tgtaaaactg caatntgaat cctgcaatac      360
atnttggctt tttccctcag tgataccatg tgagggaagn ngctctgtca aggcgggccg      420
gataga                                                                 426

      <210> 460
      <211> 348
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(348)
      <223> n = A,T,C or G

      <400> 460
ccaaatttta aaatgttatt tttcatatca tttataacct tgtcacaatc cacttaaaga       60
agtttggtta tatttcactg aaaattttct tccagagtag gtttttttttc gtgggttggg     120
gggtaacttt actacaatta gtaagtntgg tgcagaattt catgcaaatg aggagtgcag      180
cagngtgata atttaaacat atntaaacaa aaacaaaaaa aatgaatgca caaacttgct      240
gctgcttaga tcactgcagc ttctaggacc cggtttcttt tactgatnta aaancaaaac      300
aaaaaaanta annacnttgt gcctgaaatg aancttgttt ttttntna                   348

      <210> 461
      <211> 378
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(378)
      <223> n = A,T,C or G

      <400> 461
ccactaagac agaacggaat ctagtagaag tgcaccaatg cttcagtccc tcctactcag       60
catggtgagc agtggtcaat ctgtgccctg tggaatgatg ggcagataat tctggcatgt      120
gtaaataata ataaataatt cacttggtgc aggcagtatg tctatgaatt aaaacctagt      180
gtgtacacag tgcctacatg tgttacagcc ccacagtagg aatctacacc aaaatattta      240
ttagaaggaa tttggtccgt actacatcac gctttccgga gggtaaaaaa taaagtccat      300
ctatagacat ttcaccacag acccagagac tgagtctggc taaaacctgc aaaatgtcta      360
taacaaaagn ggatggct                                                    378

      <210> 462
      <211> 197
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(197)
      <223> n = A,T,C or G
      <400> 462
gcgaggtcca cactattaaa agctgttggg taattgaagg tgatataaaa tgactgtcnt      60
catttggagt gngcagcaca nttacttcat gttgctcang tttanaacaa tntcccctgn     120
aagttctcac acagatnggn agaaatcata cctanttntg gtnaatcact atggcagccg     180
tngaagaatn taagaga                                                    197

      <210> 463
      <211> 279
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(279)
      <223> n = A,T,C or G

      <400> 463
cataagtgat gangaggnaa aatcantnaa taagcctaca acntagaata cattaaaact      60
tgcacatata catgttcaca gcatgtatac aatgataatc cctacggttt aaccaagtta     120
tggttccctt ctacagcaga cacaaaacca aggtgaacta ggtnggcaga tgtanaggga     180
ataccaaaaa aagggtaatn ngntcactga ttctgaagna tntgactgan catactgagc     240
ttctgnactt tgggaatgca tnnaggnaac aatatcttg                            279

      <210> 464
      <211> 552
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(552)
      <223> n = A,T,C or G

      <400> 464
gatgggttga taggtgcagc aaaccaccct ggcgcatgtt taccaatgta acaaacctgc      60
acatcctgca caggtactcc aaaactaaaa gtaaaaaaat ctaaaagaaa aaagaaaaag     120
aattaaaccc aaaatcactt ccccatctgg acttgattta gatgaaaagc ttctggactt     180
tgagctgatg ctatagtggg ttgaaaattt tggggtcctc agaaggggat gaggatatat     240
tgcatgagag agcaacatga atcatngaga gccagagtat agagagnggt gggtagactg     300
taggagagcc ctcaatgatc ccggctgtct tgtattcgcg ttgcacttac ttgtataata     360
tggcagatgg gatgtgatgt cactttcaag attangttat aaatagacta tggcttcaat     420
cagagggttt tcttctctgt ctanctctct tttgggtagn ttcattctga gagaaagcca     480
nacctcngcc gcnacccacg ctaaggggcg anttccagcn cactggcggc cngttactag     540
tggatccgng ct                                                         552

      <210> 465
      <211> 444
      <212> DNA
      <213> Homo sapien

      <220>
```

<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

<400> 465
ccactcttgg tagaaacctt gaaactttca ccttgctggg ctttagcaaa gtttcctttt 60
acagttctgt ttatgagctt cagctactga taaagcactt cctgaacttc tctattatca 120
tagngaccct ctgaataacc tgagtgactg gctcggcaat tcgctttata accattctta 180
ttcccaaagt tggagcacat aaacatttag atgtcttttc ctgtaaaata ttctagacat 240
ttacccaaac tctagttcaa catatactca acttgcactg tatatctccc tgctttttg 300
agacagagaa gaaattcagg aggtgnccca tctccagagt ttctctgttg gaaagcagcn 360
atcaagaanc ctttaaaaaa ttggtgtnaa gctntgccnc ctgcagaaat gcntngcccc 420
acattattct tctggggnaa agna 444

<210> 466
<211> 381
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(381)
<223> n = A,T,C or G

<400> 466
cctactatgg gtgttaattt tttactctct ctacaaggtt ttttcctagt gtccaaagag 60
ctgttcctct ttggactaac agttaaattt acaaggggat ttagagggtt ctgtgggcaa 120
atttaaagtt gaactaagat tctatcttgg acaaccagct atcaccaggc tcggtaggtt 180
tgtcgcctct acctataaat cttcccacta ttttgctaca tagacgggtg tgctctttta 240
gctgttctta ggtagctcgt ctggnttcgg gggtcttagc tttggctctc cttgcaaagt 300
tatttctagt taattcatta tgcannaggt ataggggnta gtccttgcta tattatgctt 360
ggttataatt tttcatcttt c 381

<210> 467
<211> 95
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(95)
<223> n = A,T,C or G

<400> 467
cctatanatt ntggnttgta tactgggtcc tgaaaaccct cttggngctc tgtttttaag 60
gagctgaanc caangancgc caataataat acttt 95

<210> 468
<211> 224
<212> DNA
<213> Homo sapien

```
      <400> 468
cagtgggtct ctgatgcctt gcctgcagca gaaggaggga gcagagatca agaggaagga      60
aaaaatcata tgtacttatt tgaaggtaaa gattattcta aagagcccag taaggaagac     120
agaaaatcat ttgaacaact ggtaaacctt cagaaaaccc ttttggagaa agctagtcaa     180
gagggccgat cactccgaaa taaaggcagt gttctcatcc cagg                      224

      <210> 469
      <211> 416
      <212> DNA
      <213> Homo sapien

      <400> 469
ctgagttcta gttcaaaagc tttatcctta acttcgtcat gtactatgta aattctagaa      60
tagaaaaggg aaaggtaaga ttttggtaac ctccaaacat tgaagtagtt cacagaccca     120
aagtcagtac aaattagaat gtccatccat aataaaagta tctataaaat tacacagaca     180
cattctacat agtatttaac attagagaag acaaattaca cagggactga aataaaatga     240
aacatctact ctcccgacaa atgttgaata tacctaatca acccaagttc agtttatttt     300
tgcacattgc tttagagata taacttggct gggcacagtg gctcacacct gtaatcccaa     360
cactttggga gaccaaggcg gatggatcac ttgaggtcag ttcgagacta gcctgg         416

      <210> 470
      <211> 376
      <212> DNA
      <213> Homo sapien

      <400> 470
caccttttaa ctgtatcaca aagtctgttg ctgtggttac agcctttgtt tccagtgatg      60
ttttgtccat gctttccccc aacccttaac aatggttact caaaagaatg aaataatgag     120
tcattcattc gggaatatgt taaaatatcc ctctttatca ttacatttca ctgcttagaa     180
actaggctgt aattcaaggc aacagttaag tctgagaact gttaaaaaaa tctttgattt     240
tttttcattt ttaagaaaaa cctgcctatt taattgttca gacttgtaag aggttcttca     300
attacatcct ttttggttaa tgtattattt ctggaacaag tagataaaat tctacgcagt     360
aagcataata aaaatc                                                      376

      <210> 471
      <211> 357
      <212> DNA
      <213> Homo sapien

      <400> 471
ggcttcgtat aatggttctt ttgtcacccc tgatcgacga tttcgctacc cgtacaactc      60
tgacaaggga acgaaatgct tctgtgtatt cacctagtgg tcctgtgaac agaagaacaa     120
caactccacc ggatagtgga gtactgtttg aagggttagg catttcaaca agacctagag     180
atgttgaaat tcctcagttt atgagacaga ttgcagtaag gaggccaact acggcagatg     240
aaagatcttt gcggaaaatt caagaacaag atattattaa ttttagacga actctttacc     300
gtgctggtgc tcgagttaga aatattgaag atggtggccg ctacagggat atttcag        357

      <210> 472
      <211> 557
      <212> DNA
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<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(557)
<223> n = A,T,C or G

<400> 472
cngagatgac atttacaatc tcttgaaang cagcagatgg cactctggtg cttcctatga 60
agcaacatgc ttgaaatcaa gggccaacaa ttgttgtagg aaagcaaaat atacctctaa 120
cacctacgtt taccaaaaaa gctgacatct caaactctga gttgttgaga ctcaaatttc 180
tcatccccaa agaagcctat tacggtagtg tgntggatgc tttttgtatc tctgataggc 240
aggcactata atgggggaa atacttctga ataaaaacat tggctgtctt gcaactgtgc 300
atataatgtc tattcaaggg ggcagtgtgc ctagcatgat cctgaaatgt tgagataaaa 360
ggaagttggc attaaagcac tatttgtctt atatgaaaag agtgactcta tcttccagta 420
aacaagantt cctgcaatga aaaagaaatt ttttccttca ttatctataa actatacaaa 480
ataaccttcc tttttaacct aagactcaaa cattnatatt tgattttatt ctatttgata 540
ccaattggta tgtccag 557

<210> 473
<211> 264
<212> DNA
<213> Homo sapien

<400> 473
cctccatcaa cagaaaggat aaagacccct tcgggtctcc tcattaattc tgaactggaa 60
aagccccaga aagtccggaa agacaaggaa ggaacacctc cacttacaaa agaagataag 120
acagttgtca gacaaagccc tcgaaggatt aagccagtta ggattattcc ttcttcaaaa 180
aggacagatg caaccattgc taagcaactc ttacagaggg caaaaaaggg ggctcaaaag 240
aaaattgaaa aagaagcagc tcag 264

<210> 474
<211> 165
<212> DNA
<213> Homo sapien

<400> 474
aattcagctt ccagaggccc ttattagtcc ttgttgacag aaacatagat ttggcaactc 60
ctttacatca tacttggaca tatcaagcat tggtgcacga tgtactggat ttccatttaa 120
acagggttaa tttggaagaa tcttcaggag tggaaaactc tccag 165

<210> 475
<211> 417
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(417)
<223> n = A,T,C or G

<400> 475
aagttctctt cttgttttaa acacattcct gataacttct aaagatgacc aaaataaaac 60
agaatatcta cagagatcat tttctgaatt ttttgtacat ccaaggataa caacataaaa 120
aaaataaaac tggacagcat tccacatcca agtgcacaga accatttttg caagattaaa 180
taatgtaaac attgggaaca gccaaatcag cgaagaatgc caacacctca aaacacctgg 240
tgttgccgct tcattaagtg gttcaaaatc cagatctata attgcgcaat attcaccgta 300
tataaaaaga aatggatatt aattttgaca aatagctgca actgagactt ctttttattt 360
ctttatatgn gnatatagtg aatttttatt atttttaaaa ttttatttat tttttta 417

<210> 476
<211> 321
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(321)
<223> n = A,T,C or G

<400> 476
catttaataa caaaaacaac ctgtacggaa aacccnaagg caaccacata gcatatgtaa 60
aatgtgcaaa tacactttaa aatgcangtt attctatagc anttgcaaga tagaatttca 120
ctgtaattag ggaatctagc tcatcctaac ttaatagnct tttgcatgtn tagacaatgc 180
aattctacaa ggnacnactc agcgttgatg ctaaagtatg aaacacatcc tcagattatt 240
catccgaaaa tattaaaata gcntcatgtt ttattattct ttaatgagtc ntgagctcat 300
ttctaaagct tcataaagca t 321

<210> 477
<211> 546
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(546)
<223> n = A,T,C or G

<400> 477
gctgtggtta tattgtaaat gaagcatcta acatgtgcac aacttgcaac aaaaactcct 60
tggactttaa atctgtcttt ctcagtttcc atgtgctgat tgatctgact gatcacacag 120
gcacccttca ttcctgtagt ctcacaggaa gtgttgctga ggagactttg ggctgcacgg 180
tacatgagtt tcttgcaatg acaaatgaac agaaaacagc attaaagtgg caattcctct 240
tggaaagaag caaaatttat ttaaaattcg ttctatcaca cagagcaagg agtggattga 300
aaattagtgt actctcgtgc aagcttgcag atcctactga ggcaagcaga aacttgtctg 360
gacaaagaca tgtttaaaac ggtctatcat tttgaactct ggaaaagtat aagagtttta 420
actcccttta aaatggaata ttaatttgaa aattatgggg aaaattgcat tttgtttaca 480
tgtggtgaac atgtttctag aaattggtat ggcgggaagg gggctgggtg agtctgaagg 540
acctcn 546

<210> 478
<211> 100

<212> DNA
<213> Homo sapien

<400> 478
aagaaaagtg gtaaaatcaa gtcttcttac aagagggagt gtataaacct tggttgtgat 60
gttgactttg attttgctgg acctgcaatc catggttcag 100

<210> 479
<211> 508
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(508)
<223> n = A,T,C or G

<400> 479
gnnttccaaa ttcttctaac tcttccaaaa gccttctgcc ttagtttttt ttaaattaca 60
ccagtccttt tagtagcttt ttgatgtgat ttttaaccaa cttccccttc tagcttcaag 120
tattcttcta aattggtcct ggtctacgta aacaccctca tcttctcaag ctttaccttc 180
taacttctgc accaccagaa attaaattga tgggcttttta aaataaattg gttaccaata 240
atttcctcat tttttcagtg ctattttatc caatttttgg ctttatattt ttctatcttc 300
tatacttctc caatacttgt cttagcttgt ttttcatttt ctatctgaaa ctcttgacaa 360
tatcttctaa tttccctatc ttctctattc ttttcttcgc cttcccgtac ttctgcttcc 420
agntttccac ttcaaacttc tatcttctcc aaattgttca tcctaccact cccaataatc 480
tttccatttt cgtgtagcac ctggncag 508

<210> 480
<211> 81
<212> DNA
<213> Homo sapien

<400> 480
ggtgcccttt tcctaacact cacaacaaaa ctaactaata ctaacatctc agacgctcag 60
gaaatagata aggaaaatga c 81

<210> 481
<211> 306
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

<400> 481
tcgccttcgg ccgccgggca ggttaggggn acaagacgct acttccccta tcatagaaga 60
gcttatcacc tttcatgatc acgccctcat agtcattttc cttatctgct tcctagtcct 120
gtatgccctt ttcctaacac tcacaacaaa actaactaat actaacatct cagacgctca 180

gggaatagaa accgtctgaa ctatcctgcc cgccatcatc ctagtcctca tcgccctccc 240
atccctacgc atcctttaca taacagacga ggtcaacgat ccctccctta ccatcaaatc 300
aattgg 306

<210> 482
<211> 582
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(582)
<223> n = A,T,C or G

<400> 482
gggggggaaca gtcattatac attatttaga ctcattcctt cttccagtgc ccttatgatt 60
atttcctacc tttaccattg atcttaaact gngcaggcta aaaagaggaa ccagaactcc 120
cttaagcact tttaagacta tttaaaaaat aaagntttgt tggcattgaa gagtaagctg 180
cttaagggac tgaatgaaaa gatagtaccc tttgtggctg tatgaagaga gaaactgaat 240
ttctatccaa gagaccttaa tntagcctat tagggaatta tcttccccaa aagtacaagt 300
aattttgcac tgcaggagaa ggataagtag atttgattta catcacattt tatacacacc 360
tttcaagang gagaaatctg cttcataaat agnaggaatc tatgcttaaa ctnaacattt 420
aatggtgacn tcttacaaca gccttgaaaa nnattggaan tcngacntga nggnggaaac 480
tggaanaaag aatatctttc tcttctgcat cctttnatcc tcaaacttag catggattca 540
cacgctgagg aaangttngg tnacnaccng aacatttaga ta 582

<210> 483
<211> 275
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 483
gcctcactaa aataacagat ttcagtatag ccaagttcat cagaaagacc caaatggaat 60
gatttacaaa atagaacact ttaaaccagg tcagtcctat ctttttgtag ctgaaggcta 120
tcagtcataa cacaatttcg cgtacacctc tgctcattat ggaattacac ttaaaacgaa 180
tctcaagagg gtgaccattg ttgtttcaga taccatccct aaggagagtg gttaacagga 240
agattgccag ngttactgat ggaaagaagc gcttg 275

<210> 484
<211> 434
<212> DNA
<213> Homo sapien

<400> 484
catatttcca caggccaatt tctttctgtt tttctgctaa gctatttcag cattttagct 60
tttcctcttt gctttgttta ctcatgattg ccagatggct acgttacctc taagcatcag 120

```
atcctcacaa attaatggtt aaatgtaagg gagggatttt actctcttgc attaaaaaaa     180
agctttattg agatataatt tactgtaaca ttgactcatt taaagtatgc tagtcaatag     240
accaaatctt gaataaactc ccattcacaa ttgctacaaa gggaataaaa tagctgggaa     300
tatagctaac aagggaagtg aagggcctct tcaaggagaa ctacaaacca ctgctcaaga     360
aataagagag gatacaaaca aatggaaaaa cattccatgc tcatgaatag gaagaatcaa     420
tatcgtgaaa atgg                                                       434

      <210> 485
      <211> 291
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(291)
      <223> n = A,T,C or G

      <400> 485
ncaccactgc agccctacat acagttgaaa aaaaattcca ttctgttaac atttgtttta      60
taagttttca cgcaatacac aaaaaacccc tctgcacttc ttgtaaagaa caaaaaagat     120
acacaacagt taagcgtaaa gatcacaggc aatagcattc aaacatggat gtgggtagag     180
aaaggagtac ctggcatgag tacctgctta gtttgactga atccttgatt tttaatttgg     240
cttttcatgg gccgctcaca acaccaacgc tgtgtgaggt atggtagtca g              291

      <210> 486
      <211> 274
      <212> DNA
      <213> Homo sapien

      <400> 486
ctgtaatatt gtagttgctc cagaatgtca agggcagctt acggagatgt cactggagca      60
gcacgctcag agacagtgaa ctagcatttg aatacacaag tccaagtcta ctgtgttgct     120
aggggtgcag aacccgtttc tttgtatgag agaggtcaaa gggttggttt cctgggagaa     180
attagttttg cattaaagta ggagtagtgc atgttttctt ctgttatccc cctgattgtt     240
ctgtaactag ttgctctcat tttaatttca ctgg                                 274

      <210> 487
      <211> 184
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(184)
      <223> n = A,T,C or G

      <400> 487
tggcaccaag attctcagct cacggtacca gcatctgatt gtcggactac ctgctgcttt      60
ccctgatatt tatacatgat attcgnaaaa tgtaaagaag ctattattca tacagacatc     120
tagagaagga gngaagnttt taaaaaaata aaaaaatact tatttcaagc tttagctgtg     180
ttct                                                                  184
```

<210> 488
<211> 393
<212> DNA
<213> Homo sapien

<400> 488
ctgcattttt attgcgatct gcagatgaac tggaaaatct cattttacaa cagaactggg 60
acagacgacc accatattca ctgaggtcta aatttgcagt ttccactaat gacattttga 120
tttcccaaca gagatacttc tggtcttact gcacagtctt ttaagagaaa tacttccatt 180
atgccacatt gtccttgatc cgtaagtgat gtgttaaggt gcttcaaagg aactctgacc 240
tctgaagtac ttgagctact ttagtatgtc cagcctattg ctttttgttt tagtgtgtca 300
ccataaatat caggggcata aaaggctatc tattcttaat tcaaggataa aacagaagaa 360
gcttgtggta taaaacaata gttcaagatc cag 393

<210> 489
<211> 607
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(607)
<223> n = A,T,C or G

<400> 489
gtgcttatgt acttaagggg aactactcta actgggtgaa gagtangatg aagcatccat 60
gtccctacaa aggatatgaa ctcatccttt tttatggctg catagtattc catggtgtat 120
atatgccaca ttttcttaat ccagtctatc atcgatggat atttgggttg gttccaagtc 180
tttgctattg tgaatagtgt cgcaatgaac atacatgtgc atgtgtcttt atagcagcat 240
gatttataat cctttgggta tatacccagn aatgggatag ctgggtcaaa tggtatttct 300
agttctagat ccttgtggaa ttgccacact gtcttccaca atggttgaac tagtttacag 360
tcccaccaac agtgtaaaag tggtcctatt tctccacatc atctccagca cctgttggtt 420
cctgactttt taatgattgn cattccaact ggtgtgagat ggtatatcac cgtgggtttg 480
atttgcattt ccctgatggc cagtgatgat gaacnttttt tcatgtggtt tttggctgca 540
taaatggcct gccttttnta cttctataaa atttttcann tcttattatt attcctgggg 600
gnttaag 607

<210> 490
<211> 179
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(179)
<223> n = A,T,C or G

<400> 490
cttctaggaa tactagtata tcgctcacac ctcatatcct ccctactatg cctagaagga 60
ataatactat cactgntcat tatagctact cccataaccc tnaacaccca ctccctctta 120

```
gccaatattg ngcctattgc catactagtc tttgccgcct gcgaagcanc ggtaggacc      179

      <210> 491
      <211> 399
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(399)
      <223> n = A,T,C or G

      <400> 491
cctctacctg taatcacatt aatttttcta aagacagggg nggtgttttg aagataaatg       60
tcattagtct atgataatag catcatagga caattagcca ttttagactt gaccatattt      120
tctcttttta gcatatagcc atcttgatat ttaggnggga gactactcca atggagcaac      180
agtttcattt tacatgattg gatttagaaa tttacaaatt ttaaactcat aagaattcta      240
aataatttga aaatggaaac atttgaccca cagtctagca gcataaatac atttataaaa      300
tacttcattg ttgatcttag gtcattgatt taaaacagaa tttggtgact atgggcaggt      360
ggagggggcc ngtgaggaag gtataaaaga gaaatcttt                             399

      <210> 492
      <211> 482
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(482)
      <223> n = A,T,C or G

      <400> 492
ctccacctta ctaccagaca gccttagcca aaccatttnc ccaaataaag tataggcgat       60
agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac      120
caagcataat atagcaagga ctaaccccta taccttctgc ataatgaatt aactagaaat      180
aactttgcaa ggggagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag      240
ctaaaagagc acacccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac      300
aaacctaccg agcctggtga tagctggttg tccaagatag aatcttagtt caactttaaa      360
tttgcccaca gaaccctcta aatccccttg taaatttaac tgttagtcca aagaggaaca      420
gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta      480
gg                                                                     482

      <210> 493
      <211> 207
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(207)
      <223> n = A,T,C or G
```

<400> 493
cataaatatt atactagcat ttaccatctc acttngngga atgctagtat atcgctcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
ctttgccgcc tgcgaagcag cggtagg 207

<210> 494
<211> 283
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 494
ccaattgatt tgatggtaag ggagggatcg ttgacctngt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgtagac cta 283

<210> 495
<211> 590
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(590)
<223> n = A,T,C or G

<400> 495
tatgtatata atttcttag ttactagcat agagaaatta ctgatttaaa aaaacatttc 60
aaattctagc atgttgtagg attctattgc cctttctaaa aagtacatct tgcttatccg 120
atttctaaca aaactattta atttgaagaa gggagaatga atttggataa aaagcaaaaa 180
tttaaaggta ctcaaattta ggcaaaccat taaagcaatc ttagtttaca gttaattggg 240
tagaatggtc aacactttct tcaggttagt tcatggagtg gatatgcatt gatagaacaa 300
cttagagatg cttttacagt tgagaaagct cattatattt gttatcttta agaatcagct 360
tatttatttc atatgtttgt tctttaagaa gaccaaagag ccctgcaaat gaatgttgat 420
ttgttttttt gtttgtttaa tatttttgta gagataagat ctcactttgt tatgttgccc 480
aggctggtct caaactctca acttgaagtg atctgcccac ctcagcctcc caaagtggtg 540
ggattacagg catgagccac cgcacctgga cctgcccggg cggncgctcg 590

<210> 496
<211> 307
<212> DNA
<213> Homo sapien

```
      <220>
      <221> misc_feature
      <222> (1)...(307)
      <223> n = A,T,C or G

      <400> 496
ggagattagt atagagaggn anacnttttt tcgngatatt tggtcacatg gataagtggc      60
gctggcttgc catgattgtg aggggtagga gccaggtagt tagtattagg aggggggnng     120
ttagggggtc tgaggagaag gttggggaac agctnaatag gttgttngnt gatttggnta     180
aaaaacanta gggggatgat nctaataatt antgctgtgg gtggttgtgn tgattcaaat     240
tatgngcttt ttcggagann catgtcangt ggtagtaaat ataattgttg ggaccattan     300
ttcttan                                                               307

      <210> 497
      <211> 216
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(216)
      <223> n = A,T,C or G

      <400> 497
cattttcctc ttggtttctt cagttaagtc aaanngncac gttcctcttt ccccatatat      60
tcatatattt ttgctcgtta gtgtatttct tgagctgttt tcatgttgtt tatttcctgt     120
ctgngaaatg gtgttttttt ttgttgttgn tggttttttt tttttttttt aaactnggna     180
ccncnaantt gaaaaaatgn ttnttttttcc ctnaca                              216

      <210> 498
      <211> 375
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(375)
      <223> n = A,T,C or G

      <400> 498
gaatttcctg gcaccttttc tcgctagaga agattnngtg tgactgggtt gcctataagc      60
catatagata caaactttta tctctaatac caagtcttag agggatatat taatagatct     120
aataaattta ttcttagact tattgtttca tgggntagtg agtctttgct actggagaca     180
atacagactt gtcagttttt ttaaaaaaaa aaaatttgcc aagctancac attaaaaana     240
tntcctaagg ctntcatttt atgaggatga ttataaacnt ttntgngata aatatcacca     300
taataaactg ttaagtacaa ctgcnggccn cccttanagn gaattcctnc agttanaaat     360
ttattttttt gccaa                                                      375

      <210> 499
      <211> 215
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(215)
      <223> n = A,T,C or G

      <400> 499
ccacnaaagc agaagcttaa agcatagtag taaagaggnn aaaaagaagg acgaaaataa      60
atcagatgac aaggatggta aagaagttga cagtagtcat gaaaaggcca gaggtaatag     120
ttcactcatg gaaaagaaat taagtagaag gttgtgcgaa aatcggagag gaagcttgtc     180
acaaaaaaaa aaaaaaaaaa aaaaaaaaat gtttt                                215

      <210> 500
      <211> 489
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(489)
      <223> n = A,T,C or G

      <400> 500
ccactacgat aagcaggtag ctgggttttg tagtgagntt gctccttaag ttacaggaac      60
tctccttata atagacactt cattttccta gtccatccct catgaaaaat gactgaccac     120
tgctgggcag caggagggat gatgaccaac taattcccaa accccagtct cattggtacc     180
agccttgggg aaccacctac acttgagcca caattggttt tgaagtgcat ttacaaggnt     240
tgtctacttt cagttcttta ctttttacat gctgacacat acatacactg cctaaataga     300
tctctttcag aaacaatcct cagataacgc atagcaaaat ggagatggag acatgatttc     360
tcatgcaaca gcttctctaa ttataccttа gaaatgttct ccttttttatc atcaaatctg    420
ctcaagaagg gctttttata gtagaataat atcagtggat gaaaacagct taacatttta     480
ccatgctta                                                             489

      <210> 501
      <211> 286
      <212> DNA
      <213> Homo sapien

      <400> 501
aaaaacactc aaacacagcc ttggagggag gagtcagttt taaaagactc ttataaaagt      60
aatatactgc tagctctgaa gaatcggagg ctaaaatcat ctcttcaagt ccccagggaa     120
tcccaaagaa ctccagggga aggtgggatg ggccagagag ctctggaagc ttccaggtct     180
gttgcaagcc tcacctggta cacagtaggc tcttccaggt ctgtcaggaa cccaggagcc     240
tcccctagca cacagtaggc tcacaaaaag ggagcactgc tgctgg                    286

      <210> 502
      <211> 168
      <212> DNA
      <213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(168)
<223> n = A,T,C or G

<400> 502
cctatgattg tgggggcaat gaatgaagcg aacagagntt cgttcatttt ggttctcaga 60
gtttgttata atttttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatttt tagttgggtg atgaggaata gtgtaaggag tatggggg 168

<210> 503
<211> 173
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(173)
<223> n = A,T,C or G

<400> 503
cctttataat aaattaggca aaaggttcag tgcnnggcta tantggacaa catgaaactc 60
cataaaaatg actggatagg gggactgctt gagacttttc ttttgggcat tactaacaga 120
attcaaagaa attccaacca cgcttatttt tccaaattct actgaaatga gag 173

<210> 504
<211> 310
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

<400> 504
tagtattcta tttaaaaatt aagttttggg gtctgtaaaa tatacaggac aatgactttt 60
ttaaaatgta agttaatacc tcctcctcac ttgtcttaat tgaacttagg tgtttattct 120
taaaggngga ccttgatgaa aatgttgaga tgggaagtgt tattaggcaa aacttgttat 180
agatttctca tataactctt aattgaccct tagaatttta acaaccgcgc ctggcccaat 240
agactgtttt ttagagtant tttaggctct cancaaaatt gaggggaaaa tacagggtgt 300
tcccattaaa 310

<210> 505
<211> 530
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(530)

<223> n = A,T,C or G

<400> 505
cctcagggaa cttacaatta tggcaaaagg ggaaggggaa gcaagcacct tcttcacaag 60
gcatcaggag agagagagaa agagagtagg ggaaactacc ccttttaaac catcatatcc 120
tgtgagaact ccctcagtat tagaagagca tgagggaaac cgcctccata atccaatcac 180
ctcccaccag gaccatccct caatacatgg gggttacaat tcaagatgag gttcgggtgg 240
ggatacagat ttaaaccata tcagaatggt taatgatatt gttgtatttt accaactata 300
atcttcttag tgttatagta caataatgta aaaaattgag taaatttgtt ttctatatta 360
ttctgttttt ggaaaacatg tatatagtca gggctgtttg tctcaagaaa atatggtaaa 420
ctctgctgtt ttggtcactg gtgcctagaa tttggggatg tacattggtt ttgattcaca 480
tgcacatttc cttctagttc acagtaacta tttctaacta tttcccnata 530

<210> 506
<211> 352
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

<400> 506
cttgaacgct ttcttaattg gtggctgctt ttaggcggta ctatgggtgn taaatttttt 60
actctctcta caaggttttt tcctagtgtc caaagagctg ttcctctttg gactaacagt 120
taaatttaca aggggattta gagggttctg tgggcaaatt taaagttgaa ctaanattct 180
atcttggaca accagctatc accaggctcg gtaggtttgt cgcctctacc tataaatctt 240
cccactattt tgctacatag acgggtgtgc tcttttagct gttcttaggt agctcgtctg 300
gtttcggggg tcttagcttt ggctctcctt gcaaanntat ttctagttaa tt 352

<210> 507
<211> 370
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(370)
<223> n = A,T,C or G

<400> 507
cctaactaga tcttatcaga atagggggga agggngtcgg ttcatcctta ttgagtgtta 60
atgaccctgt aagatgtaat ttcttttatt tcattctgtt acctagaaaa tctatcacag 120
ccttgtagta ttgattgctc aatctataaa gagctcagtt tacagcatga ctgttagtaa 180
cagggntatt ttaatgagtg actcttcaac acctcagagt ttcactaaat tccaacccat 240
cagcccagta gtctaacatt aagggtctta ggaaatgaga acttatcacc tttccttatc 300
atgaaaaggt aacctccagg taaccaaaaa tagaacttcc tctgtgttcg tttttatag 360
aaattactgg 370

<210> 508

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      <211> 129
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(129)
      <223> n = A,T,C or G

      <400> 508
ctgttaaaag aacaaactta gcaatatata acagttnggt aacaggattt ttgactattc      60
actttgggag ttattttttaa aaatccactt ttttactgag tcttactaca taccaggcac    120
tgtacttgg                                                             129

      <210> 509
      <211> 422
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(422)
      <223> n = A,T,C or G

      <400> 509
ntgggaagtc gtgacatcca tgggaaccca gcgctgtgat gctggtgttt gngttctccg      60
cgagaagtga ccattgttgg agcaccatcc agagctagtg accantncag tggacagtta     120
gtgggagaat caaaaatcct ttccagaatg tctgtttctc actacntgca ccgggngatt     180
acaggcacca gtgcagngat gattgtactt atttgacaca tactccccgt cntcctggnt     240
nttgttcctg anaanggtgg gtaaatattc caggaaaaan aatgcacatt gaatggatgt     300
gagagaccac attgcctctc ccactgcttt ggggagcact ttcctgtcat ttctaactta     360
ccacntgctt ggtgtactat atgtatgttg tgcctcatat gttgcaaaga actaangtga     420
gt                                                                    422

      <210> 510
      <211> 238
      <212> DNA
      <213> Homo sapien

      <400> 510
ccacctatga attggtggtt tacctactca atggatagca gcacgaggac tgctgtactg      60
cacaaaaaga agaccaaaag attacagtgg accatgggat acagaagcca gcatggcaga     120
cagaagaaaa atagtttggg aacatgtaac tatcctaagt ggaagttttg ttgtaggaat     180
tatagtaatc acaccacatt acttggcctt tcggtaatgt gaaaaaaaaa aaaaatcc       238

      <210> 511
      <211> 254
      <212> DNA
      <213> Homo sapien

      <220>
```

```
        <221> misc_feature
        <222> (1)...(254)
        <223> n = A,T,C or G

        <400> 511
ccnattgatt tgatggtaag ggagggatcg ttgnggctcg tctgttatgt aaaggatgcg      60
tacggatggg agggcgatga ggactaggat gatggcgggc aggatagttc agacggtttc     120
tatttcctga gcgtctgaga tgttagtatt agttagtttt gttgtaagng ttaggaaaag     180
ggcatacagg actaggaagc acgataagga aaatgactat gagggcgnga tcatgaaagg     240
tgataagctc ttct                                                        254

        <210> 512
        <211> 269
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(269)
        <223> n = A,T,C or G

        <400> 512
cctacctgta aactacagta ctttatatat ctatgggntt aataaaaana aaatccacaa      60
atcttaaaaa ggaactttaa atgcagggct atattgaatt ggnaaactgc aacacaaact     120
ggcgcaacat aggtaaatga ataccaatct cactctatgt gatgcaagca tgctactttc     180
ccactaattt aaattacttt caaccactat gagccagaat gcatgcctga accttaaact     240
gcactttaaa aagtaacatc ttggcctaa                                       269

        <210> 513
        <211> 266
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(266)
        <223> n = A,T,C or G

        <400> 513
ggagggggt tgttaggggg tcggaggaga aggntgggga acagctaaat aggttgttgt      60
tgatttggtt aaaaaatant agggggatga tgctaataat taggctgtgg gtggttgtgt     120
tgattcaaat tatgtgnttt ttggagagnc atgncantgg tagtaatata attgttgaga     180
cgattagttt tagcattgga gtaggtttag gttatgnacc gtactctagg ccatatgtgt     240
tgganattga nactagtagg gctagg                                          266

        <210> 514
        <211> 271
        <212> DNA
        <213> Homo sapien

        <220>
```

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      <221> misc_feature
      <222> (1)...(271)
      <223> n = A,T,C or G

      <400> 514
acatgcaana aatcgagaat cttaaaaaac annacgaanc tgccctggaa nncttactgg      60
nntangatat ttatnttgcg gctgagatac ttgaacaact tcggatcnga antagacaan     120
aangggnant tntatactgc nncagaggtt acacagntca ttgtattaga gangaacana     180
tgggtctggt gttcacacat tggggggaan atgggcgtnn acangagagg nnganaaacn     240
anganagcct ncctggttng cataanaaaa a                                   271

      <210> 515
      <211> 328
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(328)
      <223> n = A,T,C or G

      <400> 515
ccaatgaggg gcaaagtgag cgncnagaag angttttgac tgaaataaat caaacacaaa      60
aatntaagtt cacagtgaca gtttaaacaa aatccaaaca aactaacaac anaaacaccc     120
cttgntttgc ctctagtgga aggtgggana acacaanctc gtcctaaaaa ttgactagta     180
aaggggaaaa cccggtcatt tncctactct ttccangaaa tatctaatgc aagaaagaac     240
ttctnctcat tatacngaag gaatttngaa aaatgatgta tttttggaac acctaantga     300
aatactggaa cctgggcaag ttcaccac                                        328

      <210> 516
      <211> 220
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(220)
      <223> n = A,T,C or G

      <400> 516
ncctnagttg aaggacccca tgtacataca ggccagggga gcagtactag gntaactaga      60
aggatctcat ccccatatgt gggctcattt caagtctatg gatgactacc ttcattgntg     120
tgtgcgagat ggtttcaccc cttgaaaata tgggcacttc ancataanat agcnaaatct     180
ttataatgat caatncatcc tacctccttt tacatgcatg                           220

      <210> 517
      <211> 296
      <212> DNA
      <213> Homo sapien

      <400> 517
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```
tgcgatttct tccttgttgt ttgctttggt ctgtgttcaa tccagagagc ttaaattgtc      60
attattttgg gaagaaaacc tgtattttg ttagtttaca atattatgaa atttcacttc      120
aggagaaact gctgggcttc ctgtggcttt gttttcttag tttctttttc cgtgccgtgt     180
atttttaat tgatttttct tcttttactt gaaaagaaag tgttttattt tcaaatctgg      240
tccatattta cattctagtt cagagccaag ccttaaactg tacagaattt ccactg         296

       <210> 518
       <211> 299
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(299)
       <223> n = A,T,C or G

       <400> 518
gaagatagaa aatataaag ccaaaaattg gataanatag cactgaaaaa atgaggaaat       60
tattggtaac caatttattt taaaagcccg tcaatttaat ttctggtggt gcagaagtta     120
gaaggtaaag cttgagaaga tgagggtgtt tacgtagacc agaaccaatt tagaagaata     180
cttgaagcta gaaggggaag ttggttaaaa atcacatcaa aaagctacta aaaggactgg     240
tgtaatttaa aaaaaactaa ggcagaaggc ttttggaaga gttagaagaa tttggaagg      299

       <210> 519
       <211> 464
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(464)
       <223> n = A,T,C or G

       <400> 519
gctgcacatc ggaggaaaac tcggtaaagc agaatgaggt tgatatgttg aatgtatttg      60
attttgaaaa ggctgggaat tcagaaccaa atgaattaaa aaatgaaagt gaagtaacaa     120
ttcagcagga acgtcaacaa taccaaaagg ctttggatat gttattgtcg gcaccaaagg     180
atgagaacga gatattccct tcaccaactg aatttttcat gcctatttat aaatcaaagc     240
attcagaagg ggttataatt caacaggtga atgatgaaac aaatcttgaa acttcaactt     300
tggatgaaaa tcatccaggt atttcataca gtttaacaga tcgggaaact tctgtgaatg     360
tcattgaagg tgatagtgac cctgaaaagg ttgagatttc aaatggatta tgtggtctta     420
acacatcacc ctcccaatct gttcagttct ccagngtcaa aggc                      464

       <210> 520
       <211> 221
       <212> DNA
       <213> Homo sapien

       <400> 520
ctgatatcta cttatttaac acaagtctct aatacaatac aattttatta attttattcc      60
acatgcccca cattagatct ctagactcat tcatcctaca tacctacttt gtatcctttg     120
```

acctacatct ccctacttcc tcctccagtc cccacccccc acccactggt gctaaccact 180
gtttcattcc ctttttcatt ctacatatgt gagatcatgc t 221

<210> 521
<211> 312
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(312)
<223> n = A,T,C or G

<400> 521
ctgatagctt tctcttcgcc tagattaata tcttctnnct tcccattcac agcccccacc 60
gacatcaaag ctttgctgtt ttatctgtca aaaatgtctt cacacttttc attcttaaat 120
aaaagtgctg agtaaggaca ttttcacaac aaatttttat tttacaaaac ttacaatgat 180
ttgaatccaa aacaactttc attatttaac tgtaaagtaa atatatattt tattaggngt 240
gtcttagttc attttgtgct gctttaacag tgtatccttg tgatagttgt ggggtggggg 300
aggggggaag ga 312

<210> 522
<211> 336
<212> DNA
<213> Homo sapien

<400> 522
ccttctttcc ccactcaatt cttcctgccc tgttattaat taagatatct tcagcttgta 60
gtcagaccca atcagaatca cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120
ctatgatatc aatgaatgtg ggttaagtaa tagatttcca gctaaattgg tctaaaaaag 180
aatattaagt gtggacagac ctatttcaaa ggagcttaat tgatctcact tgttttagtt 240
ctgatccagg gagatcaccc ctctaattat ttctgaactt ggttaataaa agtttataag 300
atttttatga agcagccact gtatgatatt tttaag 336

<210> 523
<211> 172
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(172)
<223> n = A,T,C or G

<400> 523
ngacnggcnc ntggctatgt ntatagatag ggctttaacc actatctgng aagcangagn 60
gacannattc ttgctctcac atnccacngg anacgtattt ctcttctctt acnagcgaag 120
aaccatctnt ttctaaagcc cccattctat tgcccttgct tttctctggc tt 172

<210> 524
<211> 471

<212> DNA
<213> Homo sapien

<400> 524
ccagacctgc agaaaaactt agcacagctc aatctgctgt tttgatggct acagggttta 60
tttggtcaag atactcactt gtaactattc caaaaaattg gagtctgttt gctgttaatt 120
tctttgtggg ggcagcagga gcctctcagc tttttcgtat ttggagatat aaccaagaac 180
taaaagctaa agcacacaaa taaaagagtt cctgatcacc tgaacaatct agatgtggac 240
aaaaccattg ggacctagtt tattatttgg ttattgataa agcaaagcta actgtgtgtt 300
tagaaggcac tgtaactggt agctagttct tgattcaata agaaaaatgc agcaaacttt 360
taataacagt ctctctacat gacttaagga acttatctat ggatattagt aacatttttc 420
taccatttgt ccgtaataaa ccatacttgc tcaaaaaaaa aaaaaacctt c 471

<210> 525
<211> 332
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

<400> 525
ccccnctgta ttccagcctg ggtgacccca tctcanggaa gaaaagttac cagatgtcgn 60
gggtaaaggt tggtcttcaa gtggcctcat aagttgtctt gcatttaaat tcagggaatt 120
cattggacca ataggttaca ttttcgttcc tttttgttt tggttcatct gttaagcagt 180
gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240
ttcaaactgg ttgttgatgg gtaataaggg ctgtttttgc tgccccaaaa gggcttaaca 300
atttaggcgg atagtttact taaaaaaaaa aa 332

<210> 526
<211> 440
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(440)
<223> n = A,T,C or G

<400> 526
ccaggttacc tcccctaaca gatgtggtgt tctgangggt tggttaagtg cccgaggaaa 60
ataggcctta actgttaaca tctacagaga agaaagcatg gtcacactgg caaggagtaa 120
gaagggattg ggtaaaagaa aatgggagag aaaagggaaa aaagttttgg caagacaatt 180
gttccctgct aagaagctgc agggtgaaag ctttcctttc ttctattttt gtttttaatg 240
nctgtctctc tgatcagngg aaaagtgaaa atttctagta tctagcacta acgtatgacc 300
caactttgag ggatcacaag ctagaacaag ttgaggattt aaaatcctgg ataattatat 360
acttaaagtt catgagcata aagctcactt gaccatgcag aaatgctggg aagcagggtg 420
catggcatgg gaatacatct 440

<210> 527
<211> 124
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(124)
<223> n = A,T,C or G

<400> 527
tttccatatg tctgttgggt gcataaatgn cttcttctga gaagtgtctg ttcctatcct 60
ttgccccctt tttgaggact taaatgttag acctaagacc ataaaaaccc tagaagaaaa 120
ccta 124

<210> 528
<211> 162
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(162)
<223> n = A,T,C or G

<400> 528
ctgcgggaga aatatgggga caagatgttg cgcangcaga aaggtgaccc acaagtctat 60
gaagaacttt tcagttactc ctgccccaag ttcctgtcgc ctgtagtgcc caactatgat 120
aatgtgcacc ccaactacca caaagagccc ttcctgcagc ag 162

<210> 529
<211> 409
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(409)
<223> n = A,T,C or G

<400> 529
cctttaaaat atagcttata aaatgtatac tatnngccag gagagctcac atttttctgc 60
agttttccag tggacctgcc tatggaatac tgtaaagaaa aatctgcaaa aatattccta 120
gcaattgaat cagtgctttt aaataaaaga agtggagagg ggcttggtta aattattctg 180
acaagttttc ttgctagtgg ttgccaaaat taaggatatt tgaagtgtcc tatcacccaa 240
atttggcttt aagaaaaagc tatattctgn gtctataggg tgaagcccac actatctgtg 300
ctgcattctc aatgatacaa tacctatctg gaaactttcc tgttttgcca atgggtgcac 360
aaatctaaaa cattttatca caaaaggtac ttgaatttaa atttctttt 409

<210> 530
<211> 325

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      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(325)
      <223> n = A,T,C or G

      <400> 530
ccgccagtgt gatggatatc tgcagaattc gccctttcna gatttgngcc cgggcaggtc      60
catggctagg attatagata gttgggtggt tggggnaaat gagtgaggca ggagtccgag     120
gaggttagtt gtggcaataa aaatgattaa ggatactagt ataagagatc aggttcgtcc     180
tttagtgttg tgtatggcta tcatttgttt tgaggttagt ttgattagtc attgttgggt     240
ggtaattagt cggntgttga tganatattt ggaggtgggg atcaatagag gggaaatag      300
aatgatcagt actgcggcgg gtagg                                           325

      <210> 531
      <211> 173
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(173)
      <223> n = A,T,C or G

      <400> 531
ccaattgatt tgatggtaag ggagggatcg ttgaccncgt ctgttatgta aaggatgcgt      60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct     120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt tag            173

      <210> 532
      <211> 395
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(395)
      <223> n = A,T,C or G

      <400> 532
caggtcctac tatgggtgtt aaatttttta ctctctctac ngggtttttt cctagtgtcc      60
aaagagctgt tcctctttgg actaacagtt aaatttacaa ggggatttag agggttctgt     120
gggcaaattt aaagttgaac taagattcta tcttggacaa ccagctatca ccaggctcgg     180
taggtttgtc gcctctacct ataaatcttc ccactatttt gctacataga cgggtgtgct     240
cttttagctg ttcttaggta gctcgtctgg tttcgggggt cttagctttg gctctccttg     300
caaagttatt tctagttaat tcattatgca naaggtatag gggntagtcc ttgctatatt     360
atgcttggnt ataatttttc atctttccct tgcgg                                395

      <210> 533
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        <211> 290
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(290)
        <223> n = A,T,C or G

        <400> 533
ctgaaccatt atgggataaa ctggtgcaaa ttctttgcct tctctacttc tcactgattg      60
aacataagct tccagggctc ccctgaaaac caaaatgaaa acaatgtcaa aatattagat     120
aaatcacata aaacagttaa ggggatacca atatataaaa attattaggt aagctcattt     180
ctggaactgt taatgctcgg tttcacaatc caagnngacc aacagccttc actcagntac     240
tggnagtgnt actatggtta ctacngntac tacctttagt gtnaaaaact                290

        <210> 534
        <211> 334
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(334)
        <223> n = A,T,C or G

        <400> 534
ccgccagtgt gatggatatc tgcagaattc gcccttagcg agnnagccgg gcaggtccat      60
ggctaggttt atagatagtt gggtggttgg tggggnatga gtgaggcagg agtccgagga     120
ggttantttg tggcaataaa aatgattaag gatactagta taagagatca ggttcgtcct     180
ttagtgttgc gtatggctat catttgtttt gagggtagnt tgattagnca ttgttgggng     240
gtaattantc ggctgttgat ganatatttg gaggtgggga tcaatanagg gggaaatana     300
atgatcagtn ctgcggcngg tnngacctcn gccc                                 334

        <210> 535
        <211> 557
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(557)
        <223> n = A,T,C or G

        <400> 535
nccataagct tcagtgcgca aaaggtcaag gccagtgtta atttgttatt tcttaaataa      60
ctttcccttt catttttaaa ttataaattt aacttctaac atgttttatg gttaaaattg     120
tacttttttc ctttagcgac attcaaatgc atcacaatca ctttgtgaaa ttgttcgcct     180
gagcagagac cagatgttac aaattcagaa cagtacagag cccgaccccc tgcttgccac     240
tctagaaaag tatgtgtaaa actctgttct tgttcttctt tcatattgat gctgttccat     300
gtgttaccat tgtgagtggt tggtaagtgt tccttatgtg ggaatcatgt gccttgaaaa     360
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taaccttggg tgggtgagaa ggtagggaaa cctgcttctt ttatctcaag taaaagtttt 420
ggcagggtaa agaagataaa tgacatttat atctagactt ttgagttttc caattatttg 480
gtaaaaatgg gaaattctgt agaagccctt ccttaaaaat gggggaagtc catttnanaa 540
aattaactgg taggtca 557

<210> 536
<211> 372
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(372)
<223> n = A,T,C or G

<400> 536
gttccaacct tcatttctga aactgttcta gagcacngtg tctttctcgt agttcataac 60
ttaccccttc agtctagaat tagaattaca ttatctgttt tactacttta ctagactgta 120
agctcctaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga 180
ctcatatcta gagtctttag atgaaactta ctgagttgaa taacttaata tatttctgtt 240
ttcattccca agggaggcca tgtctggaga tagaccttga atttaataaa ttttaggcac 300
tataccattt cagtggagaa aattgttggg aaatttgggg ggatggatat ataaggggga 360
ggaagtcact gg 372

<210> 537
<211> 284
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 537
ccttctgatg caaacagaaa ggaaatgttg tttggangcc ttgctagacc tggacatcct 60
atgggaaaat ttttttgggg aaatgctgag acgctcaagc atgagccaag aaagaataat 120
attgatacac atgctagatt gagagaattc tggatgcgtt actactcttc tcattacatg 180
actttagtgg ttcaatccaa agaaacactg gatactttgg aaaagtgggt gactgaaatc 240
ttctctcaga taccaaacaa tgggttaccc agaccaaact ttgg 284

<210> 538
<211> 293
<212> DNA
<213> Homo sapien

<400> 538
gtacatagta ggtgtatata tttatgggct atataagatg ttttgataca ggcatgtaat 60
gtgaaacaag cacatcaaca agaatggggt atccatcccc taaaacattt gtcctttggg 120
ctacatgtca tttcctaatg taaagaaaat ggacagacag aaccaacatt gatttgactg 180
ggtgaaaaag tccatttgag ttgggagcag ggttgtgttt cctggatttg ggttgttagg 240

```
acagtgtaaa aaggcttcac aggggaacat tcttttctga taaaggaaag cag              293

      <210> 539
      <211> 468
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(468)
      <223> n = A,T,C or G

      <400> 539
tttcnataaa ctttattttt agagcagttt taagnnggta gcaaaattga ttagaaggna        60
cagagatgtc ccatacacct cctactccca cacatgcaca gccttcccca ttatcaatag       120
cccccaacag aggatacat ttgttaacaa ctgacgaacc tacatatcat tatcacccaa        180
agtccacagt ttatattatt ccttctggag aattttcaaa tacagaaatt cctctaccag       240
gaataaacta ncaatttcct ctcggctttc tataaattta attattattt cagaaattag       300
cctatcttta caggagaaaa tgttataaac catgaaaaga ctatcaaata cacaaggaag       360
tgaatgntat ataaaaaatg taccatctcc taaacaacta cctgcattcc cttcttgttg       420
gtaagttata atttgnnata gttctgatca tctgtttaat taatttgc                    468

      <210> 540
      <211> 397
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(397)
      <223> n = A,T,C or G

      <400> 540
ctgttttatt aattccccca tttgcagcac acttntctct tccaacattc atcagtcaga        60
tcagagtcca cggtcttttc aaaatttaga taaactggct tacattttgt aatgatgtcc       120
ccagacaaca ccccactcca acccattctg tttgttacta ttagtttaca acatgcatgt       180
gcctttactt tcattttcat agtatttaaa aatggaaggg cactcccaaa tttactttaa       240
cccctttaat aatctctctc ctcctgctct ctctggtcct ccagacaact gttgatttac       300
tttcctttat gatggattag tttgcatttt ctagaatttt atatgactga catataaagn       360
ttttatgttt ctcccctttg ggtttcttca tgtggca                                397

      <210> 541
      <211> 248
      <212> DNA
      <213> Homo sapien

      <400> 541
cctagatagg ggattgtgcg gtgtgtgatg ctagggtaga atccgagtat gttggagaaa        60
taaaatgtgc atagtggggg ttttatttta agtttgttgg ttaggtagtt gaggtctagg       120
gctgttagaa gtcctaggaa agtgacagcg agggctgtga gttttaggtg gagggggatt       180
gttgtttgga agggggatgc gggggaaatg ttgttagcaa tgagaaatcc tgcgaatagg       240
```

```
cttccggc                                                               248

     <210> 542
     <211> 366
     <212> DNA
     <213> Homo sapien

     <220>
     <221> misc_feature
     <222> (1)...(366)
     <223> n = A,T,C or G

     <400> 542
aatcggccct ctagatgcat gctcgagcgg ccgccagtgt gatggatatc tgcagaattc      60
gcccttgagc gatancgcgg gcaggtccaa ttgatttgat ggtaagggag ggatcgttga     120
ccncgtctgt tatgtaaagg atgcgtaggg atgggagggc gatgaggact aggatgatgg     180
cgggcaggat agttcagacg gtttctattt cctgagcgtc tgagatgtta gtattagtta     240
gttttgttgt gagtgttagg aaaagggcat acaggactag gaagcagata aggaaaatga     300
ctatgagggc gtgatcatga aaggtgataa gctcttctat gataggggaa gtagcgtctt     360
gtanac                                                                 366

     <210> 543
     <211> 460
     <212> DNA
     <213> Homo sapien

     <400> 543
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga      60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca     120
aatttaaagt tgaactaaga ttctatcttg ggcaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt     240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag      300
ttatttctag ttaattcatt atgcagaagg tatagggtt agtccttgct atattatgct      360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt     420
ctatcgccta tactttattt gggtaaatgg tttggctaag                           460

     <210> 544
     <211> 116
     <212> DNA
     <213> Homo sapien

     <220>
     <221> misc_feature
     <222> (1)...(116)
     <223> n = A,T,C or G

     <400> 544
ccgccagtgt gatggatatc tgcagaattc gccctttgga gngctngcgc ccgggcaggt      60
ctgtttcagc agctcctcct tcttcttccc gcgangatct cgagccttga tcttgg         116

     <210> 545
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<211> 380
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

<400> 545
cgacggatcg atnagctnga tatcgaattc ggacgagcat ggcgtattgc tgcagatatg 60
gattcttcag aatgctccat gacaaatgta ctgacgggaa gncnatctaa aggaggcatt 120
gtnatgagag aaaggtctcg agctccagat aaagagagat acagagttct tggaattgga 180
gttgcagaaa cagtaagaca atcgattgtg gggaagcgtt cttttagaga atctttggcc 240
ttcactccaa agcgttgttc ttcatcaata ataagtagct cgtgccgaat tcctgcagcc 300
cgggggatcc actagttcta gagcggccgc caccgcggag gagctccagc ttttgttccc 360
tttagtgagg gttaatttcg 380

<210> 546
<211> 418
<212> DNA
<213> Homo sapien

<400> 546
ccagggcaat taggcaggag aaggaaataa agggtattca attaggaaaa gaggaagtca 60
aattgtccct gtttgcggat gacatgattg tatatctaga aaaccccatt gtctcagccc 120
aaaatctcct taagctgata agcaacttca gcaaagtttc aggatacaaa atcaatgtac 180
aaaaatcaca agcattctta tacaccaata acagaccaac agagagccaa attatgagtg 240
aactcccatt cacaattgct tcagagaata aaatacctgg gaatccaact tacaagggat 300
gtgaaggacc tcttcaagga gaactacaaa ccactgctca aggaaataaa agaggataca 360
aacaaatgga agaacattcc atgctcatgg gtaggaagaa tcaatatcat gaaaatgg 418

<210> 547
<211> 172
<212> DNA
<213> Homo sapien

<400> 547
cctgaggttg ggagaaattt tgtccatttc tttagaacca aaattggcaa ccagagagta 60
tttggatgtt acacaaaata tctagtttcc ctttctagcc taaattgggt tgtttatagc 120
acccgtctct ccatttgaga aaaatggtta ggatgctggt gcagggatga gg 172

<210> 548
<211> 367
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(367)
<223> n = A,T,C or G

<400> 548
ggtctgactt aagagaaaca atggaaggca agaggcagta gaataatata ttcaaaagat 60
gcaaaggaaa aaaacctctc agccacgaat tccttatcca gcaattattt ttcaaaaatg 120
aaaataacac aaagacttag ccagataaac agaaacatta actgaagttg ttgctggcag 180
acctaccata taaaaataaa aaactctaaa aaaattccta tggctaaaag caagttacag 240
aagacagtca cttgaatcca cattttaaaa aaagcactga tatacgtaat attgacatta 300
taaaagacag taaaaatgca tttcttcttt ataataaatn gcttattaaa taacatgtgt 360
ataatgg 367

<210> 549
<211> 418
<212> DNA
<213> Homo sapien

<400> 549
ccaaatcaga acctagagtg agcattctat aaactcacct ttgctttgat ccttgaagat 60
cacaagtttt gatactgttg aaatctctac tctttcaaca ctttaattaa atggcattta 120
gaatttcata tacttctgtt gttgtttcca caatcttaaa ctggatttag aaatacttat 180
aatgtaaatg caagagcttt aacttagtaa ccgtatttcc tattttttgt tgtttttctt 240
ttgccagaat ttctgtttgt ctacaataaa gtccagcgaa atacagtatt tggttaggtt 300
acttgttaac ataaaatttt atcatttgta gagtttttac ttaaccttcc tattctctag 360
tctctataat ctttcaatga agataaccag ttacgaatat ctcctatacc atattagg 418

<210> 550
<211> 234
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(234)
<223> n = A,T,C or G

<400> 550
cctacccgcc gcagnactga tcattctatt tccccctcta ttgatcccca cctccaaata 60
tctcatcaac aaccgactaa ttaccaccca acactcacaa caaaactaac taatactaac 120
atctcagacg ctcaggaaat agaaaccgtc tgaactatcc tgcccgccat catcctagtc 180
ctcatcgccc tcccatccct acgcatcctt tacataacag acgaggtcaa cgat 234

<210> 551
<211> 542
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(542)
<223> n = A,T,C or G

<400> 551

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caccccctacc ccnntcctca taaaagttnc tctccctgga tcctcttttt ccctcatgag      60
tgcccggttg cccaagtcaa aaacctggga gtgatataaa ctccccacac atccagtcag     120
tcactcatca actctattga ttctgtctgc taaatatatn tcaattgtat taacttaaac     180
atatgcatan ggcactttct tcttcactgc atttttgtgg gctgcactta cctttcaggt     240
aacgacaaca ctggcccctc ttgcccttct agtcagaagt gccaaaatga tgagagctag     300
ccatgacaaa cccacagcca acattacact gaatgtgcaa aactggaagg gcatccaaac     360
agaggagggg agagaggaat agacaggaag tcaaactgtc tctgtttaca gatgacatgt     420
ttctatatct ataaagcccc atagtcttgg ccccaaagct tcttctgctg ataaacttta     480
gcaaagtctt agcatacaaa atcaatgtgc aaaaattact aacagtccta tacatcaagt     540
ca                                                                    542

      <210> 552
      <211> 411
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(411)
      <223> n = A,T,C or G

      <400> 552
cctggntgac aaggaggtgc ctgtnatgtg aagatttgag gaaagagcat tccaggcagg      60
gggaaggctt gatgcaaagg gtctactgca ggcattagct gagcttattt aaagatcaga     120
atgaaggcca ttgtggctag aacagagtgg acaggaagga atggtaccag gcaaagctga     180
agaagttggc aggattgagc tctcataant catggcaaag agttcccatt tcattgtttg     240
acggaaataa attggaaggt cttaagtagg agaagatttg attagattta cattttacga     300
agaagcactc tggatgttat gtgaagaaat ggcctttgca gggcaagggt ggaaacaaag     360
agatcagtta ggaaattatt ggagtagctg aggattggat gaggggatgt g               411

      <210> 553
      <211> 631
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(631)
      <223> n = A,T,C or G

      <400> 553
ccgggattag aactaaaaca agtgagatca cccctctaat tatttctgaa cttggttaat      60
aaaagtttat aagattttta tgaagcagcc actgtatgat attttaagca aatatgttat     120
ttaaaatatt gatccttccc ttggaccacc ttcatgttag ttgggtatta taaataagag     180
atacaaccat gaatatatta tgtttataca aaatcaatct gaacacaatt cataaagatt     240
tctcttttat accttcctca ctggcccct ccacctgccc atagtcacca aattctgttt     300
taaatcaatg acctaagatc aacaatgaag tattttataa atgtatttat gctgctagac     360
tgtgggtcaa atgtttccat tttcaaatta tttanaattc ttatgagttt aaaatttgta     420
aatttctaaa tccaatcatg taaaatgaaa ctgttgctcc attggagtag tctcccacct     480
aaatatcaag atggctatat gctaaaaaga gaaaatatgg tcaagtctaa aatggctaat     540
tgtcctatga tgctattatc atagactaac gacntttatc ttcaaaacac caaattgtct     600
```

```
ttagaaaaat taatgtgatt acaggtagag g                                      631

      <210> 554
      <211> 558
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(558)
      <223> n = A,T,C or G

      <400> 554
ccaggntagt ctccaactcc tgaccttagc tgatccaccc acctcggcct cccaaagtgc        60
tgggattaca ggcatgagcc actgcgcccg gccaaacttg atatgcattt ttaaataagt       120
taatacatta ttcatggttt agtctcatta tatattctat ggtccacttt gaaatttcat       180
ctaaccaaaa tcatcttcat cctgcaattt gaggtttgga cacaatgggg attgatcagt       240
aatttcttca tatgcccttt ctcaaggaaa tagtttccta tgaaaaaaaa gtcctatgtt       300
ttcatgtaag ttctcttttt ggagaagaaa aggagacatt cttacttagc actctcagtt       360
ttacaaaacg ctgccaacct taaaatttgt ctattgattc ccaaggcaca caaccaatag       420
tctgtcaata acccggaata acatttcttt aaggccccag taactttcac atgtttgggt       480
tccaatcctc acctagaatc ttgttaagaa aagtaaacca ttcactcctc tagaaactct       540
aaggttgctt cttagggg                                                     558

      <210> 555
      <211> 212
      <212> DNA
      <213> Homo sapien

      <400> 555
ccaggtattt gcataatggc ttttcttctg ttgcctttgt tcctttgtgg ccccagctaa        60
ttgcctgaga gtgccactgt tagttttcaa ctctttctga tagaaaccct gtgtactaac       120
atggaaatct taggtaatct gctttttcaa agcacaatgc agaatttatt ggcggtggtg       180
taactttaag aatatccgag aagccaccaa gg                                     212

      <210> 556
      <211> 219
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(219)
      <223> n = A,T,C or G

      <400> 556
ccatgtgtct atctggagag aaggggaaac agcaagtgca aaggccctga gatggaacat        60
atctggagaa ttcgaagaat ggtaagaagg ccagagtgga gcagaacaag tgtgggagag       120
agttgtagga gatgagatca aaggctagga atgaagtgta aggccatgtc atgtgacctt       180
gtatgtcctt gtaaggcttt tttttttttt tttnancct                              219
```

```
      <210> 557
      <211> 482
      <212> DNA
      <213> Homo sapien

      <400> 557
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga      60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca     120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt     240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag      300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct     360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt     420
ccatcgccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaaggtgg     480
ag                                                                    482

      <210> 558
      <211> 679
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(679)
      <223> n = A,T,C or G

      <400> 558
ctgtnaaaat tctgaaccta tccccaaaag aaaaaccgtg aaatacaagt tttaggaggt      60
ggagcaaaga aaagccaagt tatttaaaac caataaacac aagagacaat tctgctggag     120
aatttacttt ctccaaaaca tcaaatggac tttaaagcag aagaccacat tttatgagaa     180
agttatgtca ctgaaaagct tcatgtaaag tgactttgta aatggaatat ttttaaatga     240
taaaaagaaa ataacttttc caggaatcct ttggagaggc tgataaccag atattaaatt     300
atcaattttg ccaaagtgga cttttaaaaa atgtgttact tttaaaaact aacttgaaag     360
aatttatgag gcaatctatc tgagtatgtt tattgttgct ccattggctt tcaggatttt     420
ggtcatttca ctgttaactc ttacatcaga gaataaagaa aagaaaatga aactttgtta     480
ggaactggga tggaaaatgt agtcccagac agatctactg acctcgactg agtttcagaa     540
atatcccagg atttggttta ttcatgcctt tcttttgtga ctttctttca aattagccaa     600
ttaaagatac cccttcaatc accggtgaca tcagtacaac agtttttcaa cagttttctc     660
tctcctgacc aaacagttt                                                  679

      <210> 559
      <211> 488
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(488)
      <223> n = A,T,C or G

      <400> 559
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ccccactgta ctccagcctg ggtgacccca tctcaaagaa gaaaagttac cagatgtcat      60
gggtaaaggt tggtcttcaa gtggcctcat aagttgtctt gcatttaaat tcagggaatt     120
cattggacca ataggttaca ttttcgttcc tttttgttt tggttcatct gttaagcagt      180
gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg     240
ttcaaactgg ttgttgatgg gtaacaaggg ctgtttttgc tgccccaaaa gggcttaaca     300
atttaggcgg atagtttact taaaaaaaaa aatcctttgg agacatactg aaaatgcaaa     360
ctagtttcta aattatcaat tccctacatg aanaagcagt ttgccanagt ttagtctcan     420
aaaatgactg gttggctcta tttaaatcan aacccaattt ctacgcacct gcccgcccgg     480
ccaagggc                                                              488

        <210> 560
        <211> 602
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(602)
        <223> n = A,T,C or G

        <400> 560
cctanttaag aattccttgc cttagtggtg aacaaggact aaacacagac aatgggtgaa      60
acacagacgc taattcacat aacagagagt aggcaacctt aagaatgaat tgatgcagac     120
tcctatagaa ttcctctgtt atgactgggt tcttattttc tcctccttgt atgtagttga     180
aatttcatca ttatgaatag ttccttggat ctttttttaa agttgtgaat gcgagtgttt     240
ggctttgtaa tacaactttt tagtatccag aagataacca gtgctctacc aataaagatc     300
ttttgataca aagggtttta acttctgcca gttcttactc attttttca ggttttttat      360
acatttctta aacaacacat acattatgta aaatataaga attaatgtac attctcaagg     420
ccagattcag tgacaaaatg cactacccga atctagtaac acatttactc cttgctgcat     480
ataagtggcg tgtaagaaat acagggtata ttgttttgtg atccatgcag taaatgttca     540
caaatatcag gcaaacaact agacgntctt cagctactaa aattaactgt cccagtcaca     600
aa                                                                    602

        <210> 561
        <211> 683
        <212> DNA
        <213> Homo sapien

        <400> 561
gtctattttt aaaaagaaag aaaaaaacca ctttttata gtccctagct ttgccatatg       60
cccgccttaa gtggaaggaa agttaatcac ttaactatgt tttataaaaa gaaaaaaggg     120
cttggaatgc tattactgtt cacacaaagt atgattctgt ttgaataagg caaatgctcc     180
tttttttaaa aaaagacatt actgtaatat caaaaaccgt ggcagtttgt atacaactct     240
gggcttgatt ttttttaaaa aaacagaatg aattgatgtc ttattttata aatgttctat     300
atttattagg agaaaacttt atattgcctt ttttatcaat catgtaacag gcttatagct     360
ttccaacaga gctgcttgcc aaacaatttt ttttgtttat taaacagtgc tgaaacaaac     420
aggatcagca tttacttaag atgttaagaa tgaggacttt taatcagccg aaccaagata     480
ttgttacctg tatgcattcc caaagtctag atgctcagta tgttcagtca tatctttcag     540
aatcagtgaa ccgattaccc ttttttggt attcactcta catctgccaa cctagttcac      600
cttggttttg tgtctgctgt agaagggaac cataacttgg ttaaaccgta gggattatca     660
ttgtatacat gctgtgaaca tgt                                             683
```

```
      <210> 562
      <211> 420
      <212> DNA
      <213> Homo sapien

      <400> 562
gcactttttt tccagtaagg attcatctct tgctctccta tatggtcatt atattttata      60
ttttacatat ttataaacat gacatatgta tttatgttcc acaaagggct ttgaatagaa     120
tttacacata gagttccctg ggttgatgtg tttatcaaaa tggaagataa agtgaattaa     180
ttacttaaat atttaacact attgaataga aataatttcc ccaatattgc ttcatgattt     240
agacagtcta ttaaatgttt aagcaaggca ctagactaag tttattaaga caaattttgg     300
aatatgtgca gaaatatgac ctggctaata gtacagagtc aaagctggtt gaatggtgtt     360
atatagtgga ttcagattga tgtggcagtg gtggttacac taggggcact aaggttatcc     420

      <210> 563
      <211> 482
      <212> DNA
      <213> Homo sapien

      <400> 563
ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag tataggcgat      60
agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac     120
caagcataat atagcaagga ctaaccccta taccttctgc ataatgaatt aactagaaat     180
aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag     240
ctaaaagagc acacccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac     300
aaacctaccg ggcctggtga tagctggttg tccaagatag aatcttagtt caactttaac     360
tttgcccaca gaaccctcta aatccccttg taaatttaac tgttagtcca aagaggaaca     420
gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta     480
gg                                                                    482

      <210> 564
      <211> 302
      <212> DNA
      <213> Homo sapien

      <400> 564
ctggaagtga aggtactaat atacaaatgg ctcttgtttc tgaatatgtg atataatttg      60
tgaatctttg gaaactgaat tttttctatg gagtgcaaat atagaagggt tattttacaa     120
tgtttgttgt gaaaagaatt cactttgtaa acaactatta aggctggaag tttagtgaag     180
gtgcatagtt ttgaaagcta cacaggtgaa aaatcaaact tattgtttgt aattttgctg     240
ttacatgtta agttactttg acagcaattt tctaatgata atgtgattta tgatttaaaa     300
gg                                                                    302

      <210> 565
      <211> 554
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(554)
      <223> n = A,T,C or G

      <400> 565
ccanngtgac atcatggcaa tacagcaaga attctgnnat ttatttagaa gcctcaagga      60
gaaggatcct ggagcccctg aatgagagtt tcttctccat gcctctcccc agtcaaaata     120
catggaaata ttcatagaag cattgtaccc agcatgataa ggaaggatgg agaatggttc     180
cttatatctc tgttcacaag acatcaacac tcttaagtaa ctgtatgaaa taaattctct     240
gctgaaagca aataaaccat ctgaaaggtc ttctggttac ttacacagat ttcctagaga     300
atctgaaatc agcctaacag ggaagattaa tttttaaatg aatccaagtt aatgaaagca     360
aagaactctt atacagaaat acattttcct attataaagc aggactacct tccctaattt     420
ctgatagacc taggacaatt tgaatgggca ttgaaattct tttggttgaa ttacgcaaac     480
aagcaaagga aaagtctcaa ttattattgg aaaatttggg gagagattat tatctcttga     540
tctcctagtn natt                                                       554

      <210> 566
      <211> 631
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(631)
      <223> n = A,T,C or G

      <400> 566
ncgaagctgt gaanncattc acacggaatc tgganggtat tactgtaact tcttataata      60
cataatataa aagtttttga aagatataga cacaattaac ccctaaacaa cacactatct     120
gattctcaaa agcaatggct atttaacaag atgtaaaagg acaataacat atcaaagaac     180
tttcacacac ctaaagatag catttagcag caagttagtc agacaaaaca aacataaata     240
tcttcacatt tcctatgttt gtttttaact ttacttcata aagccactga taattgaggt     300
ttctttcaag tataagattt ctaaaattaa aaactgtttt tgacatattt ttataaagaa     360
ataaaaagca aaacgcaatc caactattta tatgagtccc tcttctccaa cagctttaga     420
tgtttttctg agtacttttt acacagaata tttttattaa aatcagttct aattcattta     480
tgcagattag gggaaaatga ttcataataa attaacttta aaattacctt ctatctgctt     540
ctacctctat ccccccatca ccaccaaatc tgttgctaca gtgaactgta gccaatgtct     600
gtttgagggg gcccaaagca tctggtaatc t                                    631

      <210> 567
      <211> 510
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(510)
      <223> n = A,T,C or G

      <400> 567
cctatnatag cttctctagc tatcatactc caatcagcna aaaatgagaa aatgttgaga      60
aatagaagat aattcctcat ttaaggncac cttctanaat ttgtgcttaa nantctgttt     120
```

```
tcttctcatg ggccagcact tcggcaactg ggaaaaatta ngngtacagg gatctaggna     180
atactgttta tttgagcaat aatatattgn gctaacgttc aggcatccta ttactgagaa     240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg ctacagggaa aaataccatc     300
agttaaatat ccatagtcct agagcattta tgtaaaactg caatttgaat cctgcaatac     360
attttggctt tttcctcagt gataccatgt gtgggaagtt gttctgtcaa ggtgggtcgg     420
ataatttgcc ctggaaagga cggatagtga ctttcctgac atgtaaaaca tttgatcctg     480
aagacacaag tcaagaaata ggcatggtgg                                      510

      <210> 568
      <211> 180
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(180)
      <223> n = A,T,C or G

      <400> 568
ttaatntgac ncacgcttat gcggaggaga atgntttcat gttacttata ctaacattag      60
ttcttctata gggtgataga ttggtccaat tgggtgtgag gagttcagtt atatgtttgg     120
gatttttttag gtagtgggtg ttgagcttga acgctttctt aattggtggc tgcttttagg    180

      <210> 569
      <211> 237
      <212> DNA
      <213> Homo sapien

      <400> 569
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt      60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct     120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt caggaaaagg     180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaag       237

      <210> 570
      <211> 352
      <212> DNA
      <213> Homo sapien

      <400> 570
ctgtctctcc atttagagcc ccagttggtc ctgacctctt acaaatttgg tgttttcact      60
ttgatgttta tgaaccgatt gcattaaaaa tgcaggataa tgattcaggg ttagagaaac     120
tattatttat acaaatgtgg ttaacacctc atcattttaa attggctgtg ctaataatgc     180
tcattgtgct cttcagggtt atgtgtgtgt gtgtgtgtgt gttttgcctg aatctgcaac     240
ctacatttgc tctggcagta tgttgagtat atgctagaat agaatggacc taggcaactc     300
taaggtccta caactaaata cacttactta ggaaacctcc taaataagta gg             352

      <210> 571
      <211> 402
      <212> DNA
      <213> Homo sapien
      <400> 571
ctgattttaa caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca      60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat     120
ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt     180
gttgaggtgg tctgaatgtt ctgacattaa cagttttcca tgaaaacgtt ttattgtgtt     240
tttaatttat ttattaagat ggattctcag atatttatat ttttatttta tttgtttcta     300
ccttgaggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc     360
ttattgttcc aagacattgt caataaaagc atttaagttg aa                        402

      <210> 572
      <211> 70
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(70)
      <223> n = A,T,C or G

      <400> 572
tggatccgag ctcggtacca agcttggcgt aatcatggtc atagctgttt cctgtgntcg      60
ttttacaacg                                                             70

      <210> 573
      <211> 423
      <212> DNA
      <213> Homo sapien

      <400> 573
ccaatggttt cttagtgaaa gagtacacta gctctgaatg caatgccctc agaaagatat      60
cattcataga gacatacaaa gcacatggca acatgacatt ggaatacacg attctgagca     120
tcttcattca tgaccaacct ggctatagat ttcagatgtc ctcttggctc gaaggatatc     180
tgggatatcc atgctcactt gcattccttt ccctttaatt tcattttcta agtccttctt     240
gtattgtttc taaaagaaca gaaaataatc ttggagcttt gcttaagctt taatagcgat     300
gttgaaattt acatgtttga atctcaaagc cacccatgtg gaaagaaaac ttatgctctt     360
tccagctatg attcacggca tttattttaa actttgtatc ttgctgctgt cttacctggc     420
tgg                                                                   423

      <210> 574
      <211> 129
      <212> DNA
      <213> Homo sapien

      <400> 574
ctgttaaaag aacaaactta gcaatatata acagtttgct aacaggattt ttgactattc      60
actttgcgag ttatttttaa aaatccactt ttttactgag tcttactaca taccaggcac     120
tgtacttgg                                                             129

      <210> 575
      <211> 684
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<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(684)
<223> n = A,T,C or G

<400> 575
ccagatntga cttttcaaaa ctactcacat tgtgaaaaan gcaggaacaa atctagtttc 60
aagttcagca tgccgttccc tgtttaattc ataaaacaca actggcagaa gtattacttg 120
aagcaaaaca aaagtaacgt gggaacttgc ttatttgcta agccacaatg tatttttcca 180
ggaatagcat aaatttgcca tctttcttgt gtctatggaa aaggggttta gaattgtttc 240
actaaaaatt aaatttctat attgtcaaac atgattgtat actcaaattt taaaatgtga 300
agggaacact tactaagcat ttcctgggta tgccactata ttaagtccta gtaatatgat 360
atagtttatt tcaatttttt ttcaactcat acttccttta aaatagcact gaccaaaaga 420
aagttaacat gagcttcatg tacaattttt aatctttttg cagaaaaata aactgagaaa 480
ggctaaaatt gttttattta agccactata ccaagacata ttgatttcac caatataaaa 540
attgagatag tttacatttt ttggtacatc tttaaaatct ggtatgtatt tttatactga 600
cagcacatct caatttggac aagctacatt tccagggctc aatagtcacc atgaatctca 660
attgtaatca aagaggttgg cctg 684

<210> 576
<211> 134
<212> DNA
<213> Homo sapien

<400> 576
ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg cacc 134

<210> 577
<211> 133
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(133)
<223> n = A,T,C or G

<400> 577
ctgtctctcc attnagaagc cccantnggt cctnacctct tacaaatttg gtgttttcac 60
tttgatgttt atgaaccgat tgcattaaaa atgcaggata atgattcagg gttaganaaa 120
ctattattta tac 133

<210> 578
<211> 200
<212> DNA
<213> Homo sapien

```
      <400> 578
cctcaaatct atcttcaaag gtgacccagc aatcagtgtc aatgccttta ctgtagttaa      60
cctggtaatt tcattcttta gtctctccaa gaaaatctga agtgtattag gcaagtcaga     120
acccaaattg tctccaaggt tgcaaataat ttgtcccata caggaaatag ccctttcctt     180
gacttcctga tcaatgtcag                                                 200

      <210> 579
      <211> 402
      <212> DNA
      <213> Homo sapien

      <400> 579
ctgattttaa caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca      60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat     120
ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt     180
gttgaggtgg tctgaatgtt ctgacattaa cagttttcca tgaaaacgtt ttattgtgtt     240
tttaatttat ttattaagat ggattctcag atatttatat ttttatttta tttgtttcta     300
ccttgaggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc     360
ttattgttcc aagacattgt caataaaagc atttaagttg aa                        402

      <210> 580
      <211> 245
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(245)
      <223> n = A,T,C or G

      <400> 580
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt      60
agggatggga gggcgatgan gactaagatg atggcgggca ggatagttca gacngtttct     120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg     180
gcatacagga ctaggaagca gataaagaaa atgactntta gggcgtgatc atnaaanggg     240
ataaa                                                                 245

      <210> 581
      <211> 294
      <212> DNA
      <213> Homo sapien

      <400> 581
tgcagcgcaa gtaggtctac aagacgctac ttcccctatc atagaagagc ttatcacctt      60
tcatgatcac gccctcatag tcattttcct tatctgcttc ctagtcctgt atgccctttt     120
cctaacactc acaacaaaac taactaatac taacatctca gacgctcagg aaatagaaac     180
cgtctgaact atcctgcccg ccatcatcct agtcctcatc gccctcccat ccctacgcat     240
cctttacata acagacgagg tcaacgatcc ctcccttacc atcaaatcaa ttgg           294

      <210> 582
      <211> 230
      <212> DNA
      <213> Homo sapien

      <400> 582
gaggtcgccc tcatagtcat tttccttatc tgcttcctag tcctgtatgc ccttttccta      60
acactcacaa caaaactaac taatactaac atctcagacg ctcaggaaat agaaaccgtc     120
tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt     180
tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg                230

      <210> 583
      <211> 481
      <212> DNA
      <213> Homo sapien

      <400> 583
ccaagggtgt tctgcctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccact      60
gtgcctgacc acaggaaaac ttatttaaat gagagatttg actcgaaaga tcccgttttt     120
ttaaggctct tagttcttaa aagcggcaca taatagaatt agtataatcc caaataaatt     180
ttcagtagat ttttggtgta acttgagaag atgattctgt catttttagt gacaatttaa     240
aagacctgaa attgtctaca gccatagaaa gtgaactact gatagttgtt tctgtaaagt     300
tttattggaa cacaaccaca cctatttgtt catctgtatt gtctttggtt actttgtgca     360
gagaccatgg cccacaaacc taaaacattc actttctagc tctttaagaa ataattggcc     420
cactgacacc ctggtcttaa ggtctagacc aattatttct caagagtatt agctgaatca     480
g                                                                     481

      <210> 584
      <211> 306
      <212> DNA
      <213> Homo sapien

      <400> 584
ccaattaaga gctaaattta caaaataatc tctatcagga ggctttaagg tttaatgtct      60
ctaaagtccc tatggatata agaggcttga atgtactgaa ttcaaatttg gtttttaaat     120
gttataatag tttaggcccg agagccacat atttctgtct aagaatagaa agcatagcta     180
gctgcccaca cagaatattc atatagaggt gggggcaag aacaaaattt attcatttga      240
tacatagaaa tgggactact tagaatagac tcataataga aagcatcatc tggtttctca     300
tctcag                                                                306

      <210> 585
      <211> 308
      <212> DNA
      <213> Homo sapien

      <400> 585
ccagaatggt acagagtgga gggtgttctg ctaatgactt cagagaagta tttaagaaaa      60
acatagaaaa acgtgtgcgg agtttgccag aaatagatgg cttgagcaaa gagacggtgt     120
tgagctcatg gatagccaaa tatgatgcca tttacagagg tgaagaggac ttgtgcaaac     180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct     240
atgaaatgtt tcagcagatt ctgggtatta aaaaactaga acaccagctc ctttataatg     300
catgtcag                                                              308
```

```
      <210> 586
      <211> 416
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(416)
      <223> n = A,T,C or G

      <400> 586
cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgtttaaa aactagaaca        60
ctgaaaaatt ctaggaaagc ttattttccc ttatattttt atggnacttt caacacttna       120
caacactatt tnaattaann tttnttctag agtttatann atatcagtac attcttttct       180
gtggatgcaa taatatagaa tcttattnca aatcttactg gcaggntctn ttaaattctt       240
caacggntgn catagtgatt aaccaaaatt agttatgatt tctgcctatc tgtgtgagaa       300
cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa       360
atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg           416

      <210> 587
      <211> 382
      <212> DNA
      <213> Homo sapien

      <400> 587
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga        60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca       120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt       180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt       240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag       300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct       360
tggttataat ttttcatctt tc                                                 382

      <210> 588
      <211> 307
      <212> DNA
      <213> Homo sapien

      <400> 588
cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat        60
ttgatgactt ccgagaagca tattattggc ttcgtcataa tactccagag gatgcgaagg       120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaattttag       180
tggacaataa cacatggact aatacccata tttctcgagt agggcaggca atggcgtcca       240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggtcattt       300
ttggagg                                                                  307

      <210> 589
      <211> 89
      <212> DNA
      <213> Homo sapien
```

<400> 589
cctgggtgat tgaggatgca atgagctgtg attgtgccac cacactccag cctgggcaat 60
acagcaagac tgtctcaaaa aaaaaaaaa 89

<210> 590
<211> 456
<212> DNA
<213> Homo sapien

<400> 590
cctcagttct tgattgtggt tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcatagg 120
ggagtttccg atgccagagg atgaaagcaa gtgctctctc caccctctcc tcccagagtg 180
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
cacaaaatac tgagaggtaa ctttttatca atcaaaccac ataccccaat ttaacacctt 300
tcaatgctct gaattcaact gacagactaa agggtgtttc ctgtaacagt ctgaaatatt 360
aagtgttttt tttgttttgt ttttaaatct tatttcagaa aacttcctct tggggtagga 420
aagtacacat gaagcagcaa agtaacgaag aaaaac 456

<210> 591
<211> 289
<212> DNA
<213> Homo sapien

<400> 591
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgcg 289

<210> 592
<211> 435
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(435)
<223> n = A,T,C or G

<400> 592
cgcgttagat gcgccttttc cggcctgtgc gtctgctctg gttcctctca ggcagcaaag 60
ctggggaagg aagctcaggc aggagcctcc ccgacaccac agcggcacaa gcagcagcta 120
aagcaccgca ctttgctctg ctaacctttt acttaaatga ggttttgcca aatccacatc 180
tggaaccgca tcacacccat ttgcaaggat gtttgttctt tgatgaaact gcatctctac 240
tgcacatgan ggctttcatt gtaggacaag aggagagttc gtttattttt gtaactgttt 300
tacatgttcc gattanttaa tcggnagctt atgtcatttg ctatgcctgt tgtcttctaa 360
tctctcctta ctaaaacatt acttcaaatt tnaattgacc cttgtttata atttatttaa 420
cgggatttgn gtgtc 435

<210> 593
<211> 633
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(633)
<223> n = A,T,C or G

<400> 593
ctgtttagtc agataattgt gtccgaattg attangaaaa taatagacca gccataaagc 60
agcataaaat attatgaaac tattccagaa gttcagtaat atctttggga cctgctcata 120
gcccaagttt tgtgaatact tttgtagtta aaaaaaattt ttactttacc agggcattgc 180
aattcttttc catcagtgaa tttcattcta cagacttttc agagcatctc ataatcagtc 240
aacaaatcta tttcaaatgt gtttgttact aagcaacggt tgctaagagc ttctgtaatt 300
aagatgaaag ttccaaggta acaatgccca aacacagcac cattttcacc attttctgat 360
aatgcaggag taggatggct aaaagtgaaa gaagaatcta ctctatggaa agcatggcac 420
ctgaaatttc tgaagatatt ggctgtcctc tagcttatat gagagagagt gtttgtgctt 480
tactaatcaa ccagtcattt ttttcttgtg tggctgaaat gtacattcca gacatgaaca 540
ggtagagtat gtgttggggg caggtttata ctgcatgggt gtgctgagac agggccacgt 600
ggtgatgtaa atgatgctgn ctgacacgtg cag 633

<210> 594
<211> 501
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

<400> 594
cctttacaag atgctggtac cttgatcttg gacngggcag gctccaagat ggaaagaaag 60
tgagcatctg ctttttaggg attatccagt ctatactact ctgttctagc cacacaaaac 120
aggttaagac agaaattggt accaagagtg gggtgttact acagcaaata cctgaaaatg 180
tagaagaggc tttgaaatgt ggtaattgga agaagctggt agaatttgga ggagtaggct 240
agaaaatgtc tgtattttca tgaatggagc attaagaata attccggtga ggccataggg 300
aaagtctaaa acttttcaga aattatgtaa gcgattgtga ttagtaggtt ggtagaaata 360
tagacagtaa aagcaattct gatgtggttt cagaggaaaa tgaaaaatat tagaaactga 420
aggaaggggc atccttgcta taaactggca aagaacttgg ctgaaatgtc tccatgtcca 480
agagatttat ggcagaaatg t 501

<210> 595
<211> 383
<212> DNA
<213> Homo sapien

<400> 595

ctggtcacca tcatcccttt aatcaactca cacctgttta aagagtgttt ctgatttgac 60
cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120
ggtctcatta tcaaaccttt acttatttcg gcatatttcc tctgggcttc ttctagtttc 180
tgccttacaa gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240
gagatggagg atggaaggat tggtaccaga agagggctaa gatacgtttt ctgtcttgag 300
ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggc cagaggggag 360
gtgacatgtt tagagtcacc cag 383

<210> 596
<211> 266
<212> DNA
<213> Homo sapien

<400> 596
ccatggctag gtttatagat agttgggtgg ttggggtaaa tgagtgaggc aggagtccga 60
ggaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
ctttagtgtt gtgtatggct atcatttgtt ttgaggttag tttgattagt cattgttggg 180
tggtaattag tcggttgttg atgagatatt tggaggtggg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg ggtagg 266

<210> 597
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

<400> 597
ctggtcacca tcatcccttt aatcaactca caccngttta aagagtgttt ctgatttgac 60
cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120
ggtctcatta tcaaaccttt acttatttcg gcatatttcc tctgggcttc ttctagtttc 180
tgccttacaa gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240
gagatggagg atggaaggat tggtaccaga agagggctaa gatacgtttt ctgtcttgag 300
ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggc cagaggggag 360
gtgacatgtt tagagtcacc cag 383

<210> 598
<211> 266
<212> DNA
<213> Homo sapien

<400> 598
ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60
ggaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
ctttagtgtt gtgtatggct atcatttgtt ttgaggttag tttgattagt cattgttggg 180
tggtaattag tcggttgttg atgagatatt tggaggtggg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg ggtagg 266

<210> 599
<211> 294
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 599
ccaattgatt tgatggtaag ggagggatcg ttgaccacgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca nataaggaaa atgactatga gggcgtgatc atgaaaggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgcgc tgca 294

<210> 600
<211> 213
<212> DNA
<213> Homo sapien

<400> 600
agatattggg ctgttaattg tcagttcagt gttttaatct gacgcaggct tatgcggagg 60
agaatgtttt catgttactt atactaacat tagttcttct atagggtgat agattggtcc 120
aattgggtgt gaggagttca gttatatgtt tgggattttt taggtagtgg gtgttgagct 180
tgaacgcttt cttaattggt ggctgccttt agg 213

<210> 601
<211> 471
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 601
ncctactatg ggtgttaaat tttttactct ctctacaagg ttttttccta gtgtccaaag 60
agctgttcct ctttggacta acagttaaat ttacaagggg atttagaggg ttctgtgggc 120
aaatttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180
tttgtcgcct ctacctataa atcttcccac tattttgcta catagacggg tgtgctcttt 240
tagctgttct taggtagctc gtctggtttc gggggtctta gctttggctc tccttgcaaa 300
gttatttcta gttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360
ttggttataa tttttcatct ttcccttgcg gtactatatc tattgcgcca ggtttcaatt 420
tctatcgcct atactttatt tgggtaaatg gtttggctaa ggttgtctgg t 471

<210> 602
<211> 482
<212> DNA

```
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(482)
      <223> n = A,T,C or G

      <400> 602
tgagcataca gcaataaaaa taacataatt tntatgtgta caatatttat ggaatacgtt      60
actggaacag ataaataatt tagttaataa catgacaaag aacagaaatt gtatacacta     120
tacagcatag taatagaata atgaatgatt aaagttatta atattaggta gaaaatgaag     180
ggtatctttg agagcagaac tcaaggaagc aagcaatttg ccttatgagg aaagagttac     240
ctgtggataa aggagaaact gaaaaattta caagtcaaga ctttttgagc aaaaacaaaa     300
atatgactat gagtcaccaa ttcagtacag tgaaaaaaaa gttgaagaga tatcttggaa     360
gtaaaccatg ttgtggaaga gcagggtttt gataatcatg ggattattct gaatgaattt     420
taaatgcgat aggaatatat gagataattt caccagagaa taatatgatc atgtttgcat     480
tt                                                                    482

      <210> 603
      <211> 372
      <212> DNA
      <213> Homo sapien

      <400> 603
gttccaacct tcatttctga aactgttcta gagcactttg tctttctcgt agttcataac      60
ttaccccttc agtctagaat tagaattaca ttatctgttt tactacttta ctagactgta     120
agctcctaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga     180
ctcataacta gagtctttag atgaaactta ctgagttgaa taacttaata tatttctgtt     240
ttcattccca agggaggcca tgtctggaga tagaccttga atttaataaa ttttaggcac     300
tataccattt cagtggagaa aattgttggg aaatttgggg ggatggatat ataagggga      360
ggaagtcact gg                                                         372

      <210> 604
      <211> 468
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(468)
      <223> n = A,T,C or G

      <400> 604
gcngttttga gtgagtttct taatcctgag ttctggnttg attgcactgt ggtctgagag      60
atagtttgtt ataatttctg ttcttttaca cttactgagg agagctttac ttccaagtat     120
gtggtcgatt ttggaatagg tgtggtgtcg tgctgaaaag aatgtatatt ctgttgattt     180
ggggtggaga gttctgtana tgtctattag gtccgcttgg tgcagagttg agttcaattc     240
ctggatagcc ttgttaactt tctgtctcgt tgatctgtct aatgttgaca gtggggtggt     300
aaagtctccc attattattg tgtgggagtc taagtctctt tgtaggtcac taaggacttg     360
ctttatgaat ctgggtgctc ctgcattggg tgcacatata tttaggacag cnagctcttc     420
ttgttgaatt gatcccttta ccattatgta atggccttgn ctcttttg                  468
```

```
      <210> 605
      <211> 288
      <212> DNA
      <213> Homo sapien

      <400> 605
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt      60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct     120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg     180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaggtg     240
ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgc                  288

      <210> 606
      <211> 572
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(572)
      <223> n = A,T,C or G

      <400> 606
gaatnaaatg aatgaaatag aaaatataat tgagagcttc aacaacagac tataccaaat      60
ggaggaaaaa atttctgaac ttgaagatag atcttttgaa ataacacaag cagtggcaaa     120
aatgaattaa aaagaataag gaaagcctaa aggatttatg agatatcatt aagcaagcaa     180
atattcatac tatgggcatt ccagatggaa aaaagaaggg taaaggtgag gaaatcatat     240
ttaatgaaat aatagcagaa aatttccgga gtcttgggag agagatgagc atttaggtcc     300
agggagctca aagaacccca aacagattca acccaaacag gtcctctctg gagcccaaca     360
tagtcaaatt gtaataagta aaagacaaag aattccaana agcattcaag agaaaagagt     420
caagtcataa ataagggaat ctccattagg ctaacagcag atatctcagc agaaagctta     480
cangccanga gagaatggga tgatatattc aaagtacttg aaagcagggg tnggggaaac     540
cctgctagct aaaaatatta tacccttgca aa                                   572

      <210> 607
      <211> 178
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(178)
      <223> n = A,T,C or G

      <400> 607
ctcggggtaa tctcccagca agaggtcagg tcctggntgt gcgtcccagg gtgtcagtga      60
aattggctgc tcccctgacc cagggcacct tcatgcgtct tcacagcagg actactgtga     120
ccaaggccag acctttcatc tttcaaaaga ctttgactaa aaatgcttta aaaaagca       178

      <210> 608
      <211> 416
      <212> DNA
      <213> Homo sapien

      <400> 608
cctgtctttg aatggatgaa ataggttaat aaagaacatc actgtttaaa aactagaaca      60
ctgaaaaatt ctaggaaagc ttattttccc ttatattttt atggtacttt caacacttaa     120
taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcctttct     180
gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt     240
caacggctgt catagtgatt aaccaaaatt agttatgatt tctgcctatc tgtgtgagaa     300
cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa     360
atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg         416

      <210> 609
      <211> 648
      <212> DNA
      <213> Homo sapien

      <400> 609
ctgatctctc agcagaaact cttcaaacca gaagagagtg gggccaata ttcaacattc      60
ttaaagaaaa taattttcaa cccagaattt catatccagc caaactaacc ttcacaagtg     120
aaggagaaat aaaatccttt acagacaagc aaatgctgag agattttatc accaccaggc     180
ctaccctaaa agagttcctg aaggaagcac taaacatgga aaggaacaac cagtaccatc     240
gaggctagga agaaaccgca tcaactaagg agcaaaataa ccagctaaca tcataatgac     300
aggatcagat tcacacataa cgatattaac tttaaatgta aatggactaa atgctccaat     360
taaaagacac agactggcaa attggataaa gagtcaagac ccatcagggt gctgtattca     420
ggaaacccat ctcaccgtgc agagacacac ataggctcaa aataaagggc tggaggaaga     480
tctaccaagc aaatggaaaa caaaaaaagg caggggttgc aatcctagtc tctgataaaa     540
cagactttaa accaacaaag atcagaagag acaaagaagg ccattacata atggtaaagg     600
gatcaattca acaagaagag ctaactatcc taaatatata ttgcaccc                  648

      <210> 610
      <211> 310
      <212> DNA
      <213> Homo sapien

      <400> 610
ccagctcttc tctgtcacat tcctatttct gacttctgcc tggctttcag tttctgcccc      60
accttggctt tttcccagct tgaacctaat agaactccag agtttggggg gaggcccagc     120
cctttgtttt ctgctcttga agcatattca cacataaaaa gttgtattct cttacacaaa     180
ctgttttgag gctcttaccg tagtcgaagg tatcttagat cttccttagt gatctcatta     240
agaatatccg aaagtgtata accctcttca acaatctgaa acaaagatca gatccttaag     300
agctgagcag                                                            310

      <210> 611
      <211> 254
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
```

<222> (1)...(254)
<223> n = A,T,C or G

<400> 611
ctgtttttac atctaaagca atagactaga actgaattnt cttctacata gtaaaatcac 60
aattgtggaa ttacaggaat tctggtgata ttaaggtgaa acaacaaaac acaaaaggcc 120
ctattttaac agttgatgtg acagtaagtt ttaatagaac ctgtaacttc attttggaaa 180
tgcttctcca ccaaataagg ccttttttccc ctatttaagg agccagatgg attgaaagat 240
gtggaaatag gcag 254

<210> 612
<211> 225
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(225)
<223> n = A,T,C or G

<400> 612
ctgactatat catgtcacca tcatagccaa tacaacattn ttgccatact tcctaaaaac 60
cttttcgcat acactgatca tgctacttat cagcactttc taacatcctg accaaacaga 120
cacccacacc tcttatagag tacactgtga gagaataaca tggacttgat atggcatcac 180
acttgtttta aagcaaaaaa aaaagaaaaa gaaaagaaaa aaaaa 225

<210> 613
<211> 471
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 613
ccatcagact tcttgggtgc ctggctatat tcaatgtgaa gtaaaaaata tcccaagtct 60
tacaccaaaa tagaggctct gacttagaag tatgctttta gctttctttt taaataagac 120
attctggaag aaaaaaaaag aaaaaggaaa gaaaatcaag tttgaaacac agttaacact 180
tattttggca agaaagcaac caaaatctaa aaagcataaa ctatgngtcc aaatgnaaaa 240
ggnattacag aacaaactgc aagaggggaa aattaaagcc ncactgaacg aaaaaataca 300
gtatgtctaa cattttggaa ttgnaattta aaccctaagg gcaaaagctg aaaaatcatg 360
cttanacctn ggncgngacc acnctaaggg cgaattccan cacactggcg gncgttacta 420
gtggatccna nctcggtacc aagcttggcg taatcctngg catagctgtt t 471

<210> 614
<211> 421
<212> DNA
<213> Homo sapien

```
      <400> 614
gttatttttt agaatggctc tcccatcttg agtatgtgtg atgtttcctc atgtatgaat      60
gaagcatata catctttgtc agaagtatcc cagaagcaat tctgtactct cctcattatg     120
ttctattggg tgggccatgg tttttgattt gtctcattac tgatgatggt tacttttatt     180
atttgataaa ggttgtatat aacttatcta ttatggcata atacattagc taaaaccttg     240
gcggtgtaaa acagcagata cttacgtttc tcataggaat ggctctattg agtacctctg     300
tctcaaggct tctcaagagt ttgtagctac cttgttggct ggggttgcgg tctgacctaa     360
aggcttagtt agggggtggt agaaatcttc catatgttct ttgctacgtg gacctcacag     420
g                                                                     421

      <210> 615
      <211> 242
      <212> DNA
      <213> Homo sapien

      <400> 615
cctcctattt attctagcca cctctagcct agccgtttac tcaatcctct gatcaggatg      60
agcatcaaac tcaaactacg ccctgatcgg cgcactgcga gcagtagccc aaacaatctc     120
atatgaagtc accctagcca tcattctact atcaacatta ctaataagtg gctcctttaa     180
cctctccacc cttatcacaa cacaagaaca cctctgatta ctcctgccat catgaccctt     240
gg                                                                    242

      <210> 616
      <211> 392
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(392)
      <223> n = A,T,C or G

      <400> 616
cctaatttgt agattgtgaa agcagctttt agtttaactt atttacagac cccttataat      60
taccatgttt tttttttnt tcctaaatct nttggttcag cttgngaatn ttacgtgccc     120
gtaaagtngg gatgttgaat nggcccttnt ttgttctggc agngagtcaa gngtccanca     180
tttttcata agngtttttt aaaatngttc tccancattt tatggctcct ccctcccatg     240
tcctcaaacc cagcaaaagc gtanaggcan aattanagga cccncccggg cggccgntaa     300
gggcnaattc cagcncactg gcggccgtta ctagnggatc cnagctcggn nccaagctng     360
gcgtaatcat ggncatagct gtttcctgtg an                                   392

      <210> 617
      <211> 215
      <212> DNA
      <213> Homo sapien

      <400> 617
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga      60
gctgttcctc tttggactac cagttaaatt tacaagggga tttagagggt tctgtgggca     120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc tacctataaa tcttcccact atttt                                215
```

```
      <210> 618
      <211> 433
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(433)
      <223> n = A,T,C or G

      <400> 618
ctttgtntg cctgttttgt ggactggctg gctctgttag aactctgtcc aaaaagtgca      60
tggaatataa cttgtaaagc ttcccacaat tgacaatata tatgcatgtg tttaaaccaa    120
atccagaaag cttaaacaat agagctgcat aatagtattt attaaagaat cacaactgta    180
aacatgagaa taacttaagg attctagttt agtttttgt aattgcaaat tatatttttg     240
ctgctgatat attagaataa tttttaaatg tcatcttgaa atagaaatat gtattttaag    300
cactcacgca aaggtaaatg aacacgtttt aaatgtgtgt gttgctaatt ttttccataa    360
gaattgtaaa cattgaactg aacaaattac ccataatgga tttggttaat gacttatgag    420
caagctggtt tgg                                                        433

      <210> 619
      <211> 259
      <212> DNA
      <213> Homo sapien

      <400> 619
ctgcagtgtc ccttttata tcatgctagt gttgagacat acttgactaa cttgggaaca      60
gttcgatata ttgacaaccg tcaacttaag aaaatcaaca gcttttggcc ccagcgtcca    120
agtgaacttt tcatggagtg cagaatctca aatggacaaa atactttgtc tttttaaata    180
ctgaaaattt aattattagt actatgactg aaagattctt catggctaaa aagctctgca    240
tcaaactcaa ttcaggagg                                                  259

      <210> 620
      <211> 393
      <212> DNA
      <213> Homo sapien

      <400> 620
ccaccaaagc cacacggaga ttctgtcagg cgctgagaca ccacagcctt ttcaatctta     60
gggaaagaaa tcaagtcata taaattaata tcaacaggta aggtcattga gcaattgtct    120
ttcaactgtc taagacttta tcacttaaga tcataaacac agaagcaggt cataaaaata    180
gcttttctta aggtttagga gaatttgtag gggcacttac ttgataatct gaattttcta    240
gtcagaagtt taaataccac cttttaaaaa cataaaattt aatttgtaac aagttattaa    300
caaagcagta ttgtcgaaag ttttaagctt tctcccaata atttaattac attaattaaa    360
tttttaccat tctaatggtt acaaagtaac cag                                 393

      <210> 621
      <211> 563
      <212> DNA
      <213> Homo sapien
```

```
<400> 621
ctgacaatga taaaattatc tctatatggg caaacgcgtg ctctttgtcg aagaagaaag      60
cttcagcttc atgttccagg tgagttaatt aggcaatgta tgaatgctaa tatctctttc     120
acatattttg cttaagatct gtcttaggac tctcgtctgg cccatatggt tttccaaggg     180
cagaagggcc tctttttgat gagaggcagt tttcagtaac tcttaaagtg ataacagcaa     240
aggagaggag agagaagagt aagacaaatc gaaacattct tcaattgctt cttggccttt     300
tggctaagct caagctcaaa acaggtcttc aaggagaaaa tacatcacaa agaaaaggat     360
gttttatttc ttaccttgtc ctagaaaaat ttccataaac tctattggct taattctgta     420
aacttgacca atatcagagt gcttcctacc aaggagggta gctgatgagc gtgaccatgg     480
tacatcctag aagaatgtgt gatgaagaag ctttcaccgt gtaaaagagt tgaaaattat     540
tcaaggagac attatggtct tgg                                             563

<210> 622
<211> 505
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(505)
<223> n = A,T,C or G

<400> 622
tcttaagtgt gtttaataga taaagtaaac tttcctagtc aagggttaga tttttattat      60
ctcttgtgtt ccgactttct acttttcaac tttgaacttc aaaaaaacat tactttgctt     120
atcctttgta ctttgatcag gttgtttaga attgtagatc aaaccattct ttgatcattt     180
tattgtttaa atgnttagtt ccatttataa tttttatagc caactctcgg ttatttctgt     240
cttttgagat tgcaattcag aagctgtatg tcgaagtaat ttatgagttg acttttatac     300
ttaggcttct ttaaatacta atagtcaaga attctagagc atctaataaa aaattaactt     360
tcagatcatt gggaatctgt cctcatttaa atatgtgtaa atgcatttcc acagcaaatt     420
gcttcatgcc ctttgnctat aaggaaatta ttccttgtag ctaatacatt tttcattttg     480
cagnccaaat ctttttttgag aaagg                                          505

<210> 623
<211> 489
<212> DNA
<213> Homo sapien

<400> 623
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga      60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca     120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt     240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag      300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct     360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt     420
ctatcgctat actttatttg ggtaaatggt ttggctaagg ttgtctggta gtaaggtgga     480
gtgggtttg                                                             489

<210> 624
```

```
      <211> 233
      <212> DNA
      <213> Homo sapien

      <400> 624
gttggggaac agctaaatag gttgttgttg atttggttaa aaaatagtag ggggatgatg      60
ctaataatta ggctgtgggt ggttgtgttg attcaaatta tgtgtttttt ggagagtcat     120
gtcagtggta gtaatataat tgttgggacg attagtttta gcattggagt aggtttaggt     180
tatgtacgta gtctaggcca tatgtgttgg agattgagac tagtagggct agg            233

      <210> 625
      <211> 459
      <212> DNA
      <213> Homo sapien

      <400> 625
ttcgagaaca tttttaataa ataatgtgac aaaattactt ttctgattat tggattttca      60
gtatgcaaaa ttatggctaa aaataagggg cttcttacat gaacataatg aaaacattaa     120
tcacatggat tgttccctta gtactgcacg ccttttctat ggaacttttt caaattatct     180
aaatgaacaa gtttggtttt ggtgaacacc agcctttttt tttgtggttc agttttgttt     240
ggctttgtct tccactgggg tcagacctga tacttatcta tctatgaata aatgtacatt     300
tttttcttca aatagcacca attataaaat caatgatatt cataaaatga caaaaaagga     360
tcatagaaat ctactagtca gagggcatca tttgtcaatt gaaagcaagt aatgcctcta     420
ttagagattt taaggaaatc ttgtaggttt cgacattgg                            459

      <210> 626
      <211> 458
      <212> DNA
      <213> Homo sapien

      <400> 626
cctgatgatt gttttaaaca gtagaaaggg ttcagctaag aactacagtc cactctcagc      60
cctgtcatgt actataggac aagtcttcat tcacaacaaa tggatagcaa caccaatctc     120
gtaacactgg gaaaactgca tacaatattt agaaggaaca ctaatacagc agaatctgca     180
cacaacggag tcaaagatct gaggccaaat cctactacac tttacgactt tgagttggtc     240
acttttctga accttagctt ctccatcagt gtaaaactga tgtaaaataa tataaagcta     300
tatgaaagct gatgtgattt acttgtgaaa tagtatgtgc aaaaggactt tgtaaaatgt     360
aaagcactat gctggttatt gtgatatctg agatattttt aaagttgcaa ttcaattcaa     420
caagcattca tttagagtca tgtgcaaggc actgtgct                             458

      <210> 627
      <211> 393
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(393)
      <223> n = A,T,C or G

      <400> 627
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ccatnngaac gcactcagga ggtggtttgt tctggatgca gaaaccagag atctagtttc 60
tatccacaca gacgggaatg aacagctctc tgtgatgcgc tactcaatag atggtacctt 120
cctggctgta ggatctcatg acaactttat ttacctctat gtagtctctg aaaatggaag 180
aaaatatagc agatatggaa ggtgcactgg acattccagc tacatcacac accttgactg 240
gtccccagac aacaagtata taatgtctaa ctcgggagac tatgaaatat tgtactggga 300
cattccaaat ggctgcaaac taatcaggaa tcgatcggat tgtaaggaca tttgattgga 360
ccgacatata cctgtgggct aggacttcca gga 393

<210> 628
<211> 233
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(233)
<223> n = A,T,C or G

<400> 628
ctggatttat aaaatagttg aatgacaaaa gaagnntgtt ttgacagtaa aaaaaagaca 60
ttatggacaa aatatgcaaa atgtgcaaag aaaaaataaa tttgcattag aaaggtgggc 120
atttgatctc tgagccctgt gccatgtaac attgccatgt tctttcactg ttgtttgaat 180
gttgtacccc anccccttgac tctggactta aggcaagcta tgactggctt tgg 233

<210> 629
<211> 450
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(450)
<223> n = A,T,C or G

<400> 629
ccnggacaat ntaggcagga gaaggaaata aagggtattc aattaggaaa agaggaagtc 60
aaattgtccc tgtttgcaga tgacatgatt gtatatctag aaaaccccat tgcctcagcc 120
caaaatctcc ttaagctgat aagcaactcc agcaaagtcg caggatacaa aatcaatgga 180
cacaaatcac aaacattctt atacaccaat aacagacaaa cagaggccaa atcacgagtn 240
gaactctatt ccaattgctt tcaagaaaat taaaatacct agggatccaa cttacaaggg 300
acatgaagga cctcttcaag gagaaactac aaaccactgc tcaatgaaat aaaagaggat 360
acaaagaaat ggaagaacat tccatgctca ttggtagctt gatggggatg gcattgaatc 420
tataaattac cttgggcagt atggacctca 450

<210> 630
<211> 486
<212> DNA
<213> Homo sapien

<400> 630
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60

gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatcgccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaaggtgg 480
agtggg 486

<210> 631
<211> 211
<212> DNA
<213> Homo sapien

<400> 631
tttacataaa tattatacta gcatttacca tctcacttct aggaatacta gtatatcgct 60
cacacctcat atcctcccta ctatgcctag aaggaataat actatcactg ttcattatag 120
ctactctcat aaccctcaac acccactccc tcttagccaa tattgtgcct attgccatac 180
tagtctttgc cgcctgcgat gcagcggtag g 211

<210> 632
<211> 293
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 632
cagcgcaagt aggtctacaa gacgctactt cccctatcat agaagagctt atcacctttc 60
atgatcacgc cctcatagtc atttttcctt atctgcttcc tagtcctgta tgccctttc 120
ctaacactca caacaaaact aactaatact aacatctcag acgctcagga aatagaaacc 180
gtctgaacta ngctgcccgc catcatccta gtcctcatcg ccctcccatc cctacgcatc 240
ctttacataa cagacgaggt cnacgatccc tcccttacca tcaaatcaat tgg 293

<210> 633
<211> 263
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 633
nggtctgcag tgtccctttt tatatcatgc tagtgttgag acatacttga ctaacttggg 60
aacagttcga tatattgaca accgtcaact taagaaaatc aacagctttt ggccccagcg 120
tccaagtgaa cttttcatgg agtgcagaat ctcaaatgga caaaatactt tgtcttttta 180

aatactgaaa attnaattat tagtactatg actgaaagat tcttcatggc taaaaagctc 240
tgcatcaaac tcaattcagg agg 263

<210> 634
<211> 491
<212> DNA
<213> Homo sapien

<400> 634
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tgcaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatcgccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaaggtgg 480
agtgggtttg g 491

<210> 635
<211> 270
<212> DNA
<213> Homo sapien

<400> 635
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaggtg 240
ataagctctt ctatgatagg ggaagtagcg 270

<210> 636
<211> 383
<212> DNA
<213> Homo sapien

<400> 636
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcc 383

<210> 637
<211> 537
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
<222> (1)...(537)
<223> n = A,T,C or G

<400> 637
ttttaatcct ggggtatata ggcagnactt taaattgcaa agtcttccgg gcctattttc 60
ctctacattt ttgtaattaa ctctgggggc ttacttgttt tggcagtact gaaatcaaag 120
gagctggttc ttcttttctc ccaattattt tcatatgaaa gcacctacaa ttagcctgtt 180
agtcctattc agatacatca aatatcagtg aatgctttac tattcgcaca tttaagcatc 240
tttgttttac ataaaattag agtatgaaaa ccagtgttca atttttttatc ttgttgagct 300
tgtaaaatgc cagcaattta aaactaggac ttttcccccc ataagccaag gaggtagaat 360
tactaataca agggttaaag aaggtagatt ttgttttcaa tatttgggta atattagaaa 420
gattcttccc acagggaaga actagcaagt gtcccaattt tttccaaacg ttggggaggg 480
gaaaattcac tgtatcatga aaccctaagg gtttgngtgc acttcctgct ttttagg 537

<210> 638
<211> 445
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(445)
<223> n = A,T,C or G

<400> 638
ccagcagaac acagnagtga tttggtcccg tttgttcccc agtggggtat ctatccttgt 60
gcagggcaca agcctacatg gtggctctgg tcatatcatt agaaaataga cagaaatggg 120
ctgcacacca gaatgaatga attgaattga aagggaggag tgatggtgga aaaaaaaaca 180
agtcaattca tttagactgg tagaaccaga accactgtgt agtacatcca aacggttaaa 240
attccctgga agatgttaca taatcctatc atggtgttta tttatggaaa tctattttaa 300
aaattttatg taatactgca cagtctgttt gcatgatgcc ttgtacgtag tagcaactca 360
gtaaatactt tttgaatgaa ctagtatagt attttaatta gctagtcttc gtgtactggt 420
acaaaagaac agtgtcatct tacag 445

<210> 639
<211> 584
<212> DNA
<213> Homo sapien

<400> 639
gcttgagtat tctatagtgt cacctaaata gcttggcgta atcatggtca tagctgtttc 60
ctgtgtgaaa ttgttatccg ctcacaattc cacacaacat acgagccgga agcataaagt 120
gtaaagcctg gggtgcctaa tgagtgagct aactcacatt aattgcgttg cgctcactgc 180
ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg 240
ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct 300
cggtcgttcg gctgcggcga gcggtatcag ctcactcaaa ggcggtaata cggttatcca 360
cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga 420
accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgcccccct gacgagcatc 480
acaaaaatcg acgctcaagt caagaggtgg cgaaacccga caggactata aagataccag 540
gcgtttcccc ctggaagctc cctcgtgcgc tctcctgttc cgac 584

<210> 640
<211> 404
<212> DNA
<213> Homo sapien

<400> 640
ccataggaac gcactcaggc aggtggtttg ttctggatgc agaaaccaga gatctagttt 60
ctatccacac agacgggaat gaacagctct ctgtgatgcg ctactcaata gatggtacct 120
tcctggctgt aggatctcat gacaacttta tttacctcta tgtagtctct gaaaatggaa 180
gaaaatatag gagatatgga aggtgcactg gacattccag ctacatcaca caccttgact 240
ggtccccaga caacaagtat ataatgtcta actcgggaga ctatgaaata ttgtactggg 300
acattccaaa tggctgcaaa ctaatcagga atcgatcgga ttgtaaggac attgattgga 360
cgacatatac ctgtgtgcta ggatttcaag tatttggtgt ctgg 404

<210> 641
<211> 138
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(138)
<223> n = A,T,C or G

<400> 641
ctgtgacagg aacattacct gaagtgcagg gtggttacct gcacaaagtc ccatttccaa 60
aaatttctgt gtaattcacc agaaattttg gatggaataa ttagaaaaaa aaaaagaggt 120
taaaacntgt aactcaaa 138

<210> 642
<211> 381
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(381)
<223> n = A,T,C or G

<400> 642
ctgtaggtgg aatttttacc cagaaaagat aggccctaga agcctcattt cttttctcca 60
tggaaaagga cagccctctg ctgcagcgtt caacttgtgt gtttactgac agagtgaact 120
acagaaatag cttttcttcc taaaggggat tgttctacat tttgaagtta ttttttaata 180
aaattgaatt atgttgtgta ttgtgcttcc taataggaaa tgcattattg gactgttttt 240
gtaacatcct gtttattgca aatagctagt atcgttcaaa aactgtataa aatacttttg 300
tacatattag caatgtctaa tttgtataca cttcagttaa atttccctaa aacttgaaag 360
gggaccttgt anaaattaaa a 381

<210> 643
<211> 403

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      <212> DNA
      <213> Homo sapien

      <400> 643
ccttcctaaa aaatagtggt gagctggagg ctacttccgc cttcttagcg tctggtcaga      60
gagctgatgg atatcccatt tggtcccgac aagatgacat agatttgcaa aaagatgatg     120
aggataccag agaggcattg gtcaaaaaat ttggtgctca gaatgtagct cggaggattg     180
aatttcgaaa gaaataattg gcaagataat gagaaaagaa aaaagtcatg gtaggtgagg     240
tggttaaaaa aaattgtgac caatgaactt tagagagttc ttgcattgga actggcactt     300
attttctgac catcgctgct gttgctctgt gagtcctaga tttttgtagc caagcagagt     360
tgtagagggg gataaaaaga aaagaaattg gatgtattta cag                       403

      <210> 644
      <211> 688
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(688)
      <223> n = A,T,C or G

      <400> 644
cctatttatt tgttttggcc ctggatcttt cctaatcaca attatatttc tttatttttg      60
cctttgagca gtttcattta tctttgtggg cagggaagat taaatatgaa attcagtcca     120
gtcattttgc tactggttag ctttagtttg aggcaagtaa aaatttttga ttaaaattag     180
tttcttaaaa ttatgccctt gctttaccaa ataatcaaat tggctaaaaa ataagggtat     240
gtaactttgc atttgaaga acaaaccaat aatttttcat gagccctact cgatcttctt     300
taaagaagac cttcctaaga gacaattagg gatgagtttg attaatggga aatagctcta     360
ggttagatta ttttaaattc catacaccaa gtgatttaac cacagtggca gtggcagctt     420
ctgaaccgtc aagtatgaac atcacttaaa aattaaaaga tgcttaataa taaactctta     480
attttcatta agccaatctg taattcagaa gaaaagcata tgtctgccat gggactattg     540
cagtgcgtct ccatcagtgt taacacagga gagatatgtt attttatgtg tatgtcttag     600
tttgggatat gtggtagtaa gaacatgtca agagtgcttt tcttcaaacc tgncagctca     660
actgangaaa gacaggtact tccattgc                                        688

      <210> 645
      <211> 484
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(484)
      <223> n = A,T,C or G

      <400> 645
ccaaatgtgt ctccagccca cacttccagg tggcagagcg agctctctat tactggaata      60
atgaatacat catgagttta atcagtgaca acgcagcgaa gattctgccc atcatgtttc     120
cttccttgta ccgcaactca aagacccatt ggaacaagac aatacatggc ttgatataca     180
acgccctgaa gctcttcatg gagatgaacc aaaagctatt tgatgactgt acacaacagt     240
```

```
tcaaagcaga gaaactaaaa gagaagctaa aaatgaaaga acgggaagaa gcatgggtta      300
aaatagaaaa tctagccaaa gccaatcccc aggtactaaa aaagagaata acatgaaaac      360
gcccagggtt acttgaatgt ttttataaga taggaatata tgtcttcacc atgggggggg      420
gtctcggatt tcactaacgt tgtatatgaa aatgggtgcn ataaaaagta cttttaaact      480
ttgt                                                                   484

      <210> 646
      <211> 447
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(447)
      <223> n = A,T,C or G

      <400> 646
gggtcgcgtt gaacaacttg gttcaagatg gtgggggcat ttttagagcg gcaataattg       60
aaaaaaaagg cgaactctgc cttggagagg tagatgataa gaaataaaaa ggtgtttata      120
actattttgt attataaagt gggccttaga gataggaaga agaatgatgg attccttttg      180
gatcaatcag aaaggaaaca cgaaagaaaa gtcaggaagg tagagagaga aaaagggagg      240
gaaggagaaa gaatgggaat aaaataagga ggtaagagat actattttg ctgagcaacc       300
agtgtgtttc aggatgatac aaagaaaaat atagaataga aataagtgca ggcttggaat      360
cagctacaaa tcctaaagat ggggtgtgtg tggatgtgtg tgtgtgtgtg tgnacaccat      420
tgtgtgtttg taaaatgtgt atgtccc                                          447

      <210> 647
      <211> 388
      <212> DNA
      <213> Homo sapien

      <400> 647
gaaggtgata taaaatgact gtcatcattt ggagtgtgca gtacagttac ttcatgttcc       60
tcaggtttag aacaatttcc cctgcaagtt ctcacacaga taggcagaaa tcataactaa      120
ttttggttaa tcactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg      180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct      240
aggagaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg      300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgtttttat       360
taacctattt catccattca aagacagg                                         388

      <210> 648
      <211> 632
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(632)
      <223> n = A,T,C or G

      <400> 648
```

cctggctggg cntttgacct gcgnttttaa atnactcaca gagggtggga caggaggaag 60
agtgaaggaa aaggtcaaac ctgttttaag ggcaacctgc ctttgttctg aattggtctt 120
aagaacatta ccagctccag gtttaaattg ttcagtttca tgcagttcca atagctgatc 180
attgttgaga tgaggacaaa atcctttgtc ctcactagtt tgctttacat ttttgaaaag 240
tattattttt gtccaagtgc ttatcaacta aaccttgtgt taggtaagaa tggaatttat 300
taagtgaatc agtgtgaccc ttcttgtcat aagattatct taaagctgaa gccaaaatat 360
gcttcaaaag aagaggactt tattgttcat tgtagttcat acattcaaag catctgaact 420
gtagtttcta tagcaagcca attacatcca taagtggaga aggaaataga tagatgtcaa 480
agnatgattg gtggagggag caaggttgaa gataatctgg ggttgaaatt ttctagttnt 540
cattccgtac atttttagtt agacatcaga tttgaaatat taatgttacc tcctcaatgg 600
ggtggtatca gacctgcccg ggcggncgnn tc 632

<210> 649
<211> 300
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 649
nggtgaagat agaanaaata taagcgaaat tggataaaat agcactgaaa aaatgaggaa 60
attattggta accaatttat tttaaaagcc catcaattta atttctggtg gtgcagaagt 120
tagaaggtaa agcttgagaa gatgagggtg tttacgtaga ccagaaccaa tttagaagaa 180
tacttgaagc tagaagggga agttggttaa aaatcacatc aaaaagctac taaaaggact 240
ggtgtaattt aaaaaaaact aaggcagaag gctttggaag agttagaaga atttggaagg 300

<210> 650
<211> 498
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

<400> 650
ngtnctgnta aacagaaggg tacaangccc ttctggcttt aagcagtcat aggaatgtga 60
cagacattcc tcttagggag cgcctcctcc tagggtttcc tcatctgtct cacactgagt 120
ggatgtaatg ctattttaat cctgctgtgg cccccaatac tagtacttgt ccataccttc 180
ttgcattttt agcgtctgct ctgtggggtt gttaggccct ggcactccca ggaactagtg 240
ctaaagctgc atctntctct cccctctagg gatcgataaa gtttcactgc agaaagtctc 300
cactgcggta tgctgacatc tgccctgaac cttcacccta cagcattaca ggctttaatc 360
agattctgct ggaaagacac aggctgatcc acgtgacctc ttctgccttc actgggctgg 420
ggtgatcctt ggtgcctttg tttccacaag gccttttcct gccccctgcc ttgccaaaga 480
catttaatca gcacacag 498

<210> 651

```
      <211> 654
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(654)
      <223> n = A,T,C or G

      <400> 651
ctgagggtcc ccaggtttct aaagctctca ggacgagaaa gtaggtccca agataaggag      60
cctaaagggc tttttctttt ctgtgtattc cttcttggcc tccaacatgg gtacagtcac     120
aagagcatgt aacagagaag aaggactana cctaccattt tctggataaa gaattggaaa     180
gaggatccac aggtaaccaa aaagtaccag ggaaatggca gagaaggaaa acctcaggag     240
accaacctca taagtggtat ttattagngc ctgggctcaa atccaaattg tacatgaata     300
tgtctggtcc tagataggg taccgaagact ttgaaagtga attttggtat atcattgccc     360
agattccaga ctggntattg tgtgacacaa catacaggat atatctgaat agtgctcaga     420
agagtttgaa aatgcaaatg atattaaaat aaagatgaaa aagagaaagc tggtcagaac     480
ttgtggacat aacccttctg gatctgtngc ctgattaaaa aatagttgat attctcgaat     540
gaattaaaac aagatttaga gactgagcat ggtagctnat tcttgtaatc caacnctttg     600
ggagggcaag gcaanagaat tgcttgcggc caggagtttt gagaccagct tggg           654

      <210> 652
      <211> 293
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(293)
      <223> n = A,T,C or G

      <400> 652
ngtctgttgc actgaggtga ctaaggatac attttgagga agtagctcca agaacatttc      60
cattttcact gtgccttcac atacatctaa tggaaatgaa cagcacccctt catccatcca    120
cggaagcgat taagaaaagg gtgggatgga aaaattaacc caacaatatt agatcaatac     180
gtagtattta agngtccata atgtgccagg ctgaagatgc acgggaaaac cacactagcc     240
ggtctgtcaa gggcttgaga ataccataaa caagaaaaca gacgaaccaa ttt            293

      <210> 653
      <211> 294
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(294)
      <223> n = A,T,C or G

      <400> 653
ngtccaccac tgcagcccta catacagttg aaaaaaaatt ccattctgtt aacatttgtt      60
```

ttataagttt tcacgcaata cacaaaaaac ccctctgcac ttcttgtaaa gaacaaaaaa 120
gatacacaac agttaagcgt aaagatcaca ggcaatagca ttcaaacatg gatgtgggta 180
gagaaaggag tacctggcat gagtacctgc ttagtttgac tgaatccttg atttttaatt 240
tggcttttca tgggccgctc acaacaccaa cgctgtgtga ggtatggtag tcag 294

<210> 654
<211> 250
<212> DNA
<213> Homo sapien

<400> 654
ctgtccttga acaagtatca atgtgtttat gaaaggaaga tctaaatcag acaggagttg 60
gtctacatag tagtaatcca ttgttggaat ggaacccttg ctatagtagt gacaaagtga 120
aaggaaattt aggaggcata ggccatttca ggcagcataa gtaatctcct gtcctttggc 180
agaagctcct ttagattggg atagattcca aataaagaat ctagaaatag gagaagattt 240
aattatgagg 250

<210> 655
<211> 494
<212> DNA
<213> Homo sapien

<400> 655
ccattataat tttataacac cattaccctt taaattctac cgattataag cagcgtaaaa 60
gtaactatat aaagcaaaca tcgcaaagga actctgcagg agctcttaat tcctttatgt 120
agctatcata aaattcactt tcctgaagac atttactctc attcacttcc aaactccaaa 180
ccttttctg gtagcaccac ttttgttttt aatagaaaga tgagttcata tctgtacatc 240
tctccaaagc tctaaggaat gagaaaagga tcctagtata ttgaaattac tgatgtttaa 300
tacctctgcc ttttcactaa aagccattta atatttttaa agtcaaaact tgacatacag 360
gtatttataa ggaatctcca tgactctgaa ggaatgaaat tgatgtaggt agctttggct 420
atgtaaagac atagtagagg acaattactt aaagaagagt ttcttttga ggatttgtag 480
atttgactaa gcag 494

<210> 656
<211> 477
<212> DNA
<213> Homo sapien

<400> 656
cgcgttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60
tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca 120
cagagggcct atttgtggtt gctcaggtgg ggtcatacat tgcttgcaga aatggcctga 180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca 360
catttctaac aacacttttc tttttctag aggtcactct caaacactga tatatcacta 420
tagtttgagt gtagggattc agtaatcaaa ggttgttatt gcaaaagagc caggcag 477

<210> 657
<211> 576
<212> DNA

```
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(576)
        <223> n = A,T,C or G

        <400> 657
cctctacctg tanatcacta tttttctaaa gacaatttgg tgttttgaag ataaatgtca      60
ttagtctatg ataatagcat cataggacaa ttagccattt tagacttgac catattttct     120
ctttttagca tatagccatc ttgatattta ggtgggagac tactccaatg gagcaacagt     180
ttcattttac atgattggat ttagaaattt acaaatttta aactcataag aattctaaat     240
aatttgaaaa tggaaacatt tgacccacag tctagcagca taaatacatt tataaaatac     300
ttcattgttg atcttaggtc attgatttaa aacagaattt ggtgactatg ggcaggtgga     360
gggggccagt gaggaaggta taaaagagaa atctttatga attgtgttca gattgatttt     420
gtataaacat aatatattca tggttgtatc tcttatttat aatacccaac taacatgaag     480
gtggtccaag ggaaggatca atattttaaa taacatattt gcttaaaata tcatacagtg     540
gctgcttcat aaaaaatctt ataaactttt attacc                               576

        <210> 658
        <211> 344
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(344)
        <223> n = A,T,C or G

        <400> 658
cctgaaaaga aagntgctct tatggactct tgcatgttaa gactatgtct tcacatcatg      60
gtgcaaatca catgtaccca atgactccgg ctttgacaca acaccttacc atcatcatgc     120
catgatggct tccacaaagc attaaacctg gtaaccagag attactggtg gctccagcgt     180
tgttagatgt tcatgaaatg tgaccacctc tcaatcacct ttgagggcta aagagtagca     240
catcaaaagg actccaaaat cccataccca actcttaaga gatttgtcct ggtacttcag     300
aaagaatttt catgagtgtt cttaattggc tggaaaagca ccag                      344

        <210> 659
        <211> 230
        <212> DNA
        <213> Homo sapien

        <400> 659
ctgctttccc tgctaaacag ttccagagca aaagcagcaa aaagaaaata tgggagggat      60
atgggcaacg tatactcgaa cgtacgcaga gaagagagta cggttagctc taatatttct     120
cattgaactt ggtggtatgt gccttccctg catataaggc catagtgctt ttttgggagc     180
gctagaatat ccatccactt gacagtgacc acaaaatagg ctgtttccag                230

        <210> 660
        <211> 80
        <212> DNA
```

<213> Homo sapien

<400> 660
ctggtccttg ttaaactcga tcaccacttt ggagagatcg actggaggct cctgggtgtt 60
ctgaggggcc tgggggacag 80

<210> 661
<211> 535
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

<400> 661
ctgaaccata tctgattaac tctttggtct ctgttattgg aacaaaaccg acgctatgcc 60
tgcagccgcc agactgcaac caaaaacaca gtttggggtc agaagacatt aaaaatcaca 120
ataaaatagg atgaatgttc taagtcacgc aactgaatca aggcaccttt ttttttcaaa 180
agcaaaaagt tgtttaacaa tattccagaa tagtagatac ttcaaaaacc agattacagt 240
atatatcatt ttgctgcaca ttttagtcta ttttctgtat acatagtcac acattcttta 300
ccctctccca acttatacat gctttatccc cccagtcatg tgctatgtag gtataaaaaa 360
ataaagttgt atctaaacaa gtgatttaaa aaaaaaaact aacgaatgcc ncnatnataa 420
cnctgaactt gtttccctnt tgaaggacat tggaaatgtt accgaggttn ntttacctng 480
gccgcaaccn cnctangggc naattccagc ncactggggg ccgttactag gggat 535

<210> 662
<211> 257
<212> DNA
<213> Homo sapien

<400> 662
cctgactaaa gcacatatca cactccctac acttccatgt tttctctccc atgtggaccc 60
tctgatgcat atcaagattc aagcgcctgt tgtagccctt cccacagtcc tcacatttgt 120
atggcttttc tacactgtga actttttctt gcactttaga gaatgaattc tgtacaatgt 180
tcttcccatg ctgctcacat ttgagaggtg tttctctgct gtggcgtctc tgatgggtca 240
gacgagttga ggaccag 257

<210> 663
<211> 516
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(516)
<223> n = A,T,C or G

<400> 663
ccaattatag gtattttatt ttttaaagat tagagngttc ttgaagctct ttctatttct 60

```
ttgtcaatga actaaacatt ggcaaatatg tagggtttcc cacataagaa cattattaac     120
atcaaaatag aaagctggtg gtagaaataa tgattgggaa cacagagtct ctactcagcg     180
ttctacttct gccataccat aactttgtga tctcacgaaa tatctctcca tgttctcatc     240
cctatgtata gttctgtcat ttttcaataa gagctttttg cttaattatg aagtactagt     300
tactataacc attattttga gcttcatgta aatcaagaac acatggactc cacttgcaaa     360
acattgaaaa tgtagttagg gattgggggc aaaaagcaac attttaaaat gtgtaaagac     420
aatgagtaag caacaaagtg tccaattttt taggcgaaag ttgcatatgt caggaaaagg     480
caggattaag taatagagaa tttgaatgat aactgg                               516

      <210> 664
      <211> 212
      <212> DNA
      <213> Homo sapien

      <400> 664
gtccgaggag gttagttgtg gcaataaaaa tgattaagga tactagtata agagatcagg      60
ttcgtccttt agtgttgtgt atggctatca tttgttttga ggttagtttg attagtcatt     120
gttgggtggt aattagtcgg ttgttgatga gatatttgga ggtggggatc aatagagggg     180
gaaatagaat gatcagtact gcggcgggta gg                                   212

      <210> 665
      <211> 408
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(408)
      <223> n = A,T,C or G

      <400> 665
atccaggggt ncccggtngc tgcngggaaa cctccagcct tgttcttcaa accactcagc      60
tcatgtgttt tgcgctgact agtactgaat aatacaacca ctcttattta atgttagtat     120
tatttatttg acaactcagt gtctaacagc ttgatatgca ggtccttgca tcctacattt     180
ctttaggaag ttacccattt gtaactttaa aaacaggaaa aatatcagtt ggcaaatgca     240
atcttttttt tttttaagct aaagggggggn naacngnaan naaaatnttt ntgangtngg    300
gtctataagc acccttgang ggatntgtta aaagngncat naangggggga ttctcntttn    360
gcaaaaaaat ntaannatca atttatanan ctttattttt nactttnt                  408

      <210> 666
      <211> 635
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(635)
      <223> n = A,T,C or G

      <400> 666
ctgaagnaca agggtcaggc aaaaataaga tcacaatcac caatgaccag aatcgcctga      60
```

```
cacctgaaga aatcgaaagg atggttaatg atgctgagaa gtttgctgag gaagacaaaa      120
agctcaagga gcgcattgat actagaaatg agttggaaag ctatgcctat tctctaaaga      180
atcagattgg agataaagaa aagctgggag gtaaaccttc ctctgaagat aaggagacca      240
tggaaaaagc tgtagaagaa aagattgaat ggctggaaag ccaccaagat gctgacattg      300
aagacttcaa agctaagaag aaggaactgg aagaaattgt tcaaccaatt atcagcaaac      360
tctatggaag tgcaggccct cccccaactg gtgaagagga tacagcagaa aaagatgagt      420
tgtagacact gatctgctag tgctgtaata ttgtaaatac tggactcagg aacttttgtt      480
aggaaaaaat tgaaagaact tanctctcga atgtcattgg aatcttcacc tcacagtggn      540
gttgaaactg ctatagccta agcnggctgt ttactgnttt ncattagcag gtgctcacca      600
tgtctttggg gtgggngggg ggagaaagaa agaan                                 635

      <210> 667
      <211> 388
      <212> DNA
      <213> Homo sapien

      <400> 667
gaaggtgata taaaatgact gtcatcattt ggagtgtgca gtacagttac ttcatgttcc       60
tcaggtttag aacaatttcc cctgtaagtt ctcacacaga taggcagaaa tcataactaa      120
ttttggttaa tcactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg      180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct      240
aggagaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg      300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat      360
taacctattt catccattca aagacagg                                         388

      <210> 668
      <211> 498
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(498)
      <223> n = A,T,C or G

      <400> 668
tgatcttaac aaaattcgta gcagtggaac cttgaaatgc atgtggctag atttatgcta       60
aaatgattct cagttagcat tttagtaaca cttcaaaggt tttttttttgt ttgttttcta      120
gacttaataa aagcttagga ttaattagaa gaagcaatct agttaaattt cccatttgta      180
ttttattttc ttgaatactt ttttcatagt tattcgttta aaaagattta aaaatcattg      240
cactttggtc agaaaaataa taaatatatc ttatgaatgt ttgattccct tccttgctat      300
ttttattcag tagattttttg tttggcatca tgttgaagca ccgaaagata aatgattttt      360
aaaaggctat agagtccaaa ggaatgttct tttacaccaa ttcttccttt aaaaatntct      420
gaggaatttg ttttcgcctt actttttttt cttctgtcac aatgctaagn ggtatccgag      480
gttnttaata tgagattt                                                    498

      <210> 669
      <211> 622
      <212> DNA
      <213> Homo sapien
```

<400> 669
ccttagccaa agaatgcagt ggagccttcc cccttcaact gcattgtgaa tgaataccaa 60
ttaacagcat aaaaattaat agtcccatat cagatctgga aggggtttct ggggctgtct 120
gatgtcccta tcctgttgta gtgaacacaa tagcagaaaa ttctttctgg gtccatctgc 180
tataaagtct tggtaaaaca gcattactat gaagaggatg aactcaccta ccttcagatg 240
gaggaaaagt gaaaaggact taggctttag tcctccatga cttttcttaa gcactaccta 300
cctgtaataa gctgagtgca aaaggatgcc gaagaaaatc tgcacccaga agctgttaga 360
aagcactgca gagaacaggg tatgaagaaa ataaagagtt cttaataaac ccttaagatt 420
ctttgttcaa ggtaaccttg ccaaaagggc agagtaggtg gcaaagagtt gcttttaatc 480
tagctctaca ctgcatttga aaataaaatt tgcccatttt gaatatattg tttataatta 540
aatgtgcttt ttacactgca ggtcaatata aaaactggtt agtaaatttc cagcgagcat 600
ttatgttcat ttgctcacag ca 622

<210> 670
<211> 477
<212> DNA
<213> Homo sapien

<400> 670
ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacgga tgatgaagat 120
gatatctaca aggctaataa cattgcctat gaagatgtgg tcgggggaga agactggaac 180
ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300
gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
gcctatttga aaaggttagt aaatgctgca ggaagtggga ggttacagaa tgggcaaaat 420
ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctcagtctat ttatcag 477

<210> 671
<211> 127
<212> DNA
<213> Homo sapien

<400> 671
gtgtgtgtgt ctacttgggc gtgtttaacg tgtgcgtttg tgtctgcgtg tgcatgtgtc 60
tgtgtgtgcg cgtgtatttc agtttgggtt gccggatccc atatgattgc gtgcctgtgt 120
acctgag 127

<210> 672
<211> 400
<212> DNA
<213> Homo sapien

<400> 672
gggtctgcac agctatgtta acagcatcct tataccagga gtaggaggaa agacacgact 60
ggaaaagcaa ttcaagctgg tcacacagtg taatgcaaaa tatgtggaat gtttcagtgc 120
tcagaaagag tgtaacaaag aaaagaacag aaactcttca gttgtgccat ctgagcgtgc 180
tcgagtgggt cttgcaccat tgcctggaat gaaaggaaca gattacatta atgcttctta 240
tatcatgggc tattatagga gcaatgaatt tattataact cagcatcctc tgccacatac 300
tacgaaagat ttctggcgaa tgatttggga tcataacgca cagatcattg tcatgctgcc 360
agacaaccag agcttggcag aagatgagtt tgtgtactgg 400

<210> 673
<211> 600
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(600)
<223> n = A,T,C or G

<400> 673
ctggcgttgc tcattagtga atgtatgaca gcaggatgtg aggggatgcc caggagtcag 60
tgttagcatt gtcatctgag atcactgcta ttaatatcat ccattaattt attagtgagc 120
ttcactatat gcagactggg agataaggag aaaatctgtc acattctctc tagctaatca 180
gatcagctac caattaatga gattctgaat gaaatatcaa tatgtgtttt tctaatttgg 240
acctaggaca gagctgttgc ttgtcataga gaaaaacaat aatgcttaaa catagcacat 300
tataattaaa gcaggtttct cacatacttt tcattttatc ctttggataa ttttgtgagg 360
aacgcaggac accaacttcc ctttcataga tacaatcccc atgctattga tgaaagtgtt 420
tttgaatgaa gccatacaac aaataactga tcaaagtggc attacaccaa aatttcttag 480
taggactcct gcatagaatg tttagataga cgtgaaaagt ttgttcanga ggaccagcaa 540
gagagaaact gggttctttg ggagggtttc ggtgctacat ttataccctn catcagagtn 600

<210> 674
<211> 140
<212> DNA
<213> Homo sapien

<400> 674
ggtggttggt gtaaatgagt gaggcaggag tccgaggagg ttagttgtgg caataaaaat 60
gattaaggat actagtataa gagatcaggt tcgtccttta gtgttgtgta tggctatcat 120
ttgttttgag gttagtttga 140

<210> 675
<211> 245
<212> DNA
<213> Homo sapien

<400> 675
gttgggtggt tggtgtaaat gagtgaggca ggagtccgag gaggttagtt gtggcaataa 60
aaatgattaa ggatactagt ataagagatc aggttcgtcc tttagtgttg tgtatggcta 120
tcatttgttt tgaggttagt ttgattagtc attgttgggt ggtaattagt cggttgttga 180
tgagatattt ggaggtgggg atcaatagag gggaaatag aatgatcagt actgcggcgg 240
gtagg 245

<210> 676
<211> 621
<212> DNA
<213> Homo sapien

<220>

```
      <221> misc_feature
      <222> (1)...(621)
      <223> n = A,T,C or G

      <400> 676
ctgtccccag ggnaaatagt ngaattcaac taagatctgt taataagatg tcagaataac      60
taataatttt attaggaaaa aatcatgttt taaatttcaa aatgacactt atttgtcaag     120
taatatgatc ttggaaaatt ttaaagaaaa ataatcctac ttataaacta ctttttttata     180
attgttttca gaaaaaaagt ttacagtctt aaggaaaata ttcaggtcta tcatatggtt     240
tgacagattt tttaaaagtt atttttggta aggtcttctt ttagaaaaaa attaatctca     300
agggtttttt gtaccactat aatctctaat acttactcag aattactgtg tatttactta     360
atttcttatt atgtgcctta ttatgtgctt aagatacaat aggttagagt ttaatctaaa     420
tatcttgaaa gctatattgt gggcttggta agcattttgt tttttctttc tctgttttgg     480
taaggattta aaattttttt cattgcaatt ttaagtggtt ttcaataagt aatagttttt     540
atcaaatttt tggtgcttgg tgcagagacg gcgtggggaa gggtgaatgg ttttgggaat     600
aattcagtgc acacctgggg g                                               621

      <210> 677
      <211> 210
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(210)
      <223> n = A,T,C or G

      <400> 677
tttacataan atattatcag catttaccat ctcacttcta ggaatactag tatatcgctc      60
acacctcata tcctccctac tatgcctaga aggaataata ctatcactgt tcattatagc     120
tactctcata accctcaaca cccactccct cttagccaat attgtgccta ttgccatact     180
agtctttgcc gcctgcgaag cagcggtagg                                      210

      <210> 678
      <211> 383
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(383)
      <223> n = A,T,C or G

      <400> 678
gtaggagtca ggtagttagg gttaacgagg gtggtaagga tgggggggaat tagggaagtc     60
agggttaggg tggttatagt agtgtncatg gttattagga aaatgagtag atatttgann     120
aactgattaa tgtttgggnn tgagtttnta tatcacagcc anaattntat gatgnaccat     180
gtancgaaca atgctacagg gatgaatatt atggagaagt antctanttt gaagcttagg     240
gagagctggg ttgtttgggt tgnggctcan tgtcagttcc anataataac ttcttggtct     300
aggcacatga atattgttgt ggggaanaga ctgataataa aggtggatgc gacaatggat     360
tttacataat gggggtatna gtt                                             383
```

```
<210> 679
<211> 371
<212> DNA
<213> Homo sapien

<400> 679
aaaatgaaaa tattgacaag agtttcagat agaaaatgaa aaacaagcta agacaagtat      60
tggagaagta tagaagatag aaaaatataa agccaaaaat tggataaaat agcactgaaa     120
aaatgaggaa attattggta accaatttat tttaaaagcc catcaattta atttctggtg     180
gtgcagaagt tagaaggtaa agcttgagaa gatgagggtg tttacgtaga ccagaaccaa     240
tttagaagaa tacttgaagc tagaagggga agttggttaa aaatcacatc aaaaagctac     300
taaaaggact ggtgtaattt aaaaaaaact aaggcagaag gcttttggaa gagttagaag     360
aatttggaag g                                                           371

<210> 680
<211> 176
<212> DNA
<213> Homo sapien

<400> 680
cctaggattg tgggggcaat gaatgaagcg aacagatttt cgttcatttt ggttctcagg      60
gtttgttata atttttattt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt     120
ttaatatttt tagttgggtg atgaggaata gtgtaaggag tatgggggta attatg         176

<210> 681
<211> 152
<212> DNA
<213> Homo sapien

<400> 681
ctggagatgg atatgagact agtcaagatg tgaatgctaa ttggagagaa atataatttt      60
aggaagatgc acattgatgt ggggttttga tgtgtctgat tttgactact caagctctgt     120
ttacagaaga aaattgaatg gcgagggtgt gg                                    152

<210> 682
<211> 141
<212> DNA
<213> Homo sapien

<400> 682
ccagtgcttg cttgccgtgg tttagtgatt gggtgttaga aataaaaact caggtctatt      60
tcttaccagt cagtaacaat tttagagaa tgtacttggt atataatata tggacttcag     120
gaactttgtt ggggtggggg g                                                141

<210> 683
<211> 308
<212> DNA
<213> Homo sapien

<400> 683
```

ccagcaatgg tacagagtga gggtgttctg ctaatgactt cagagaagta tttaagaaaa 60
acatagaaaa acgtgtgcgg agtttgccag aaatagatgg cttgagcaaa gagacagtgt 120
tgagctcatg gatagccaaa tatgatgcca tttacagagg tgaagaggac ttgtgcaaac 180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
atgaaatgtt tcagcagatt ctgggtatca aaaaactaga acaccagctc ctttataatg 300
catgtcag 308

<210> 684
<211> 277
<212> DNA
<213> Homo sapien

<400> 684
tggtattagg attaggatgt gtgaagtata gtacggatga gaaggttggg gaacagctaa 60
ataggttgtt gttgatttgg ttaaaaaata gtagggggat gatgctaata attaggctgt 120
gggtggttgt gttgattcaa attatgtgtt ttttggagag tcatgtcagt ggtagtaata 180
taattgttgg gacgattagt tttagcattg gagtaggttt aggttatgta cgtagtctag 240
gccatatgtg ttggagattg agactagtag ggctagg 277

<210> 685
<211> 457
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(457)
<223> n = A,T,C or G

<400> 685
ctgtggcgtn ccctacttct cccaaacctc gcaactccct cccaggacag tcagtgccaa 60
agaaacaggt cgctgaaaac taaaatgtcc acatccctaa ctggcaaccc acatcaaccc 120
caaaaggttg aagaatcatc taagatattt cagatgctct atgaagaaat tcactttaac 180
acttataact gtaagacttt gcatacatta caacagtgca ttagtgatac aagttgtaaa 240
atacgtttcc attcctttgg attttgcata tgatggtttt gcatcagtca ctgcaggtag 300
attgagcaag ctttttgtgt ttgttttttt aaacatgcat tcaactagat atgattcaga 360
atagattaat actccctttt tatcactaca gttagctaaa aaattgccag gcagtccaca 420
aaacagaatt tgctttaaga ccaacccaca gagtcag 457

<210> 686
<211> 234
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(234)
<223> n = A,T,C or G

<400> 686
ntggatttat aaaatagttg caatgacaaa agaagtatgt tttgacagta aaaaaaagac 60

```
attatggaca aaatatgcaa aatgtgcaaa gaaaaaataa atttgcatta gaaaggtggg     120
catttgatct ctgagccctg tgccatgtaa cattgccatg ttctttcact gttgtttgaa     180
tgttgtaccc cagcccttga ctctggactt aaggcaagct atgactggct ttgg           234

      <210> 687
      <211> 315
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(315)
      <223> n = A,T,C or G

      <400> 687
nngtctgtga aaaactcttt ggatgattct gccaaaaagg tacttctgga aaaatacaaa      60
tatgtggaga attttggtct aattgatggt cgcctcacca tctgtacaat ctcctgtttc     120
tttgccatag tggctttgat ttgggattat atgcacccct ttccagagtc caaacccgtt     180
ttggctttgn gtgtcatatc ctattttgtg atgatgggga ttctgaccat ttatacctca     240
tataaggaga agagcatctt tctcgtggcc cacaggaaag atcctacagg aatggatcct     300
gatgatattt ggcag                                                      315

      <210> 688
      <211> 522
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(522)
      <223> n = A,T,C or G

      <400> 688
ctgaattaga ggaggagaaa agaagccatt nnggagtact ttaattgttt agatgtgaga      60
ggctgaatgt ttgggttaag atgttagttg tcagaatcat gagaaaaggt tttaagcaag     120
gggcatttct aattctaaaa ataacaacta ctgttattta ttgagcacta tctttttgtt     180
gggtactgtc taaagtactt gatttatttt ttaaaacctt acaaaaaact tacaaggtag     240
gtactgaaag attcagtaat ttgttcaaag tcacacagca aataagcaac agactctgga     300
tttgaaccag gcaatcctag agcctgtact gttagtaatt atactttagc acctgtcaag     360
aattcctgtt gagtgtcaag aagcaancac caagttagga tttaaagcaa acatgattga     420
agaatactgt ggtgtggttg acagtagtgc ctaagtctgt tttcagagtg aaaaatgaca     480
aattagattt taagtatggt ttggagataa tatcaggaca gt                        522

      <210> 689
      <211> 158
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(158)
```

<223> n = A,T,C or G

<400> 689
tctcaactta ntntnatacc cacacccacc caanaacagg gtttgttagg nattgtttgc 60
attaataaat taaagctcca tagggtcttc tcgtcttgct gtgtcatgcc cgcctcttca 120
cgggcaggtc aatttcactg gttaaaagta agagacag 158

<210> 690
<211> 300
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 690
tagaactcgt atttttaaac ttctattctc tancctttc cactacatta tgacacaaga 60
ccctgcagaa agtcgtctgg aaaatatcag accatctctt acttgtccca tccaatctta 120
catcgaatta tatgcaccct taaaaagtta tttggagttt taaaaaactc tattagccca 180
aattacctga aataaactcc tggcttgttc ccctaatgtt tataaaaaat tgattgaaaa 240
tattcatttt aaaaatgaag ntcttgaatt tatttaaatt actgtcttgc agtgagttgg 300

<210> 691
<211> 305
<212> DNA
<213> Homo sapien

<400> 691
ctgttcagaa agctcattgg acctggtttt gaaaataaaa caaagttaaa accctgggag 60
gagttattgt gcagtgtgga gtactcaggc tttcttataa agaaaaaaaa agttatctgg 120
taccaaagtg tgcaacctac agaccctcag gtactgccct gtgacttctc tgtatgacat 180
cacaaggctg ccaagtgcct gtttttctag aactaggagt tggtgaggtt tggctagtgc 240
tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcctccaaaa 300
gacag 305

<210> 692
<211> 582
<212> DNA
<213> Homo sapien

<400> 692
caggaaatgg ataaccattt taactgtatt ttttgcagcc cgtaccttct tgggaataca 60
attgtctaac tttttatttt tggtctggct gttgtggtgt gcaaaactcc gtacattgct 120
attttgccac actgcaacac cttacagatg tggaagatgt gaaatttgtc atcaattatg 180
actaccctaa ctcctcagag gattatattc atcgaattgg aagaactgct cgcagtacca 240
aaacaggcac agcatacact ttctttacac ctaataacat aaagcaggtg agcgacctta 300
tctctgtgct tcgtgaagct aatcaagcaa ttaatcccaa gttgcttcag ttggtcgaag 360
acagaggtgc aggtaaggat gactgatagg aaatgttggt agttacgagt cacatcgttg 420
tctacaaatc catttaaatg gtattggagg gtgagtaaaa ccttgaatgt gaaaacttaa 480

```
gctgaaaaat tgtaaaaaca tttcacgcct accatgaata gatctgtttc tttctgtcca      540
caatgatttg tgtcatagac ataattgatc aatttgcaat tg                         582

      <210> 693
      <211> 275
      <212> DNA
      <213> Homo sapien

      <400> 693
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt       60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct      120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg      180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaggtg      240
ataagctctt ctatgatagg ggaagtagcg tcttg                                 275

      <210> 694
      <211> 397
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(397)
      <223> n = A,T,C or G

      <400> 694
nggtctgcat ttttattgcg atctgcagat gaactggaaa atctcatttt acaacagaac       60
tgagacagac gaccaccata ttcactgagg tctaaatttg cagtttccac taatgacatt      120
ttgatttccc aacagagata cttctggtct tactgcacag tcttttaaga gaaatacttc      180
cattatgcca cattgtcctt gatccgtaag tgatgtgtta aggtgcttca aaggaactct      240
gacctctgaa gtacttgagc tactttagta tgtccagcct attgcttttt gttttagtgt      300
gtcaccataa atatcagggg cataaaaggc tatctattct taattcaagg ataaaacaga      360
agaagcttgt ggtataaaac aatagttcaa gatccag                               397

      <210> 695
      <211> 609
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(609)
      <223> n = A,T,C or G

      <400> 695
ctgagcttcc atttgtcagc tagcactgng gtagtcaacc atgcgaatga ggctattttg       60
gacctcatga ttgtccagtg cctgggctga taccgnggga aacgaaattt tgtggctgcc      120
cacaaaatca tggaaaataa tgatttttta gaaaacctcc actgntttgt tgtgcagcaa      180
taaataactg aaacaccaat ccaaaaaact tataaagcta taacaattaa aacagnataa      240
taatagtncc gggatacaaa aatggtcaaa ttgaagagga tacaaagcct caaagcagtc      300
ctcactcata anancсttgt tgtatcacta aaanggcatt aaaattgaga anaaggaana      360
```

```
actagtggat taattaataa atgagaagta tccataagga aaaattaaaa ttnnattctt     420
gcttcacatt atgaaaaaat acaaacaaca gattgattaa agacttaaat gngatcaaca     480
aaatgttaaa actgtgataa gaacatttaa gaaaatagtt ctatnaccct gggataaaac     540
attttcntcc aaggcattaa agtgttaaat gaaaagactg atncatttat tcattagaat     600
ttaaattcn                                                             609

      <210> 696
      <211> 300
      <212> DNA
      <213> Homo sapien

      <400> 696
ctgcaaaata agcgtgctaa attaaattgt cttaaggttt ttccacttca ttttgtgact      60
ttgtgtggtt cgaatttctc agtattttaa ccagtgtgtt gatgttaaag tcaaaggctg     120
cagtatgtct atattcttgc tgtactcatt ggtagtttca gtatatgtaa tgtgagttta     180
aatagtgaaa ttgtatctca tattaacatt tcaaatgctc atattgaaaa tggaaaatag     240
taaacacggg aattgatttt attctggttg tctataatac ttcattttaa atgtaaatgg     300

      <210> 697
      <211> 391
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(391)
      <223> n = A,T,C or G

      <400> 697
nngtcatgtn tgatgnatct gancaggttg ctccacaggt agctctagga gggctggcaa      60
cttagaggtg gggagcagag aattctctta tccaacatca acatcttggt cagatttgaa     120
ctcttcaatc tcttgcactc aaagcttgtt aagatagtta agcgtgcata agttaacttc     180
caatttacat actctgctta gaatttgggg gaaaatttag aaatataatt gacaggatta     240
ttggaaattt gttataatga atgaaacatt ttgtcatata agattcatat ttacttctta     300
tacatttgat aaagnaaggc atggttgtgg ttaatctggt ttatttttgn tccacaagtt     360
aaataaatca taaaacttga acaaaaaaaa a                                    391

      <210> 698
      <211> 536
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(536)
      <223> n = A,T,C or G

      <400> 698
ctgagcatac agcaataaaa ataacataat ttttatgtgt acaatattta tggaatacgt      60
tactggaaca gataaataat ttagttaata acatgacaaa gaacagaaat tgtatacact     120
atacagcata gtaatagaat aatgaatgat taaagttatt aatattaggt agaaaatgaa     180
```

```
gggtatcttt gagagcagaa ctcaaggaag caagcaattt gccttatgag gaaagagtta      240
cctgtggata aaggagaaac tgaaaaattt acaagtcaag actttttgag caaagacaaa      300
aatatgacta tgagtcacca attcagtaca gtgaaaaaaa agttgaagag atatcttgga      360
agtaaaccat gttgtggaag agcagggttt tgataatcat gggattattc tgaatgaatt      420
ttaaatgcga taggaatata tgagataatt tcaccagaga ataatatgat catgtttgca      480
tttcaaaggg gtgtatctgg tgcactgngt agaataaata ggntatgtga gcaagt          536

        <210> 699
        <211> 419
        <212> DNA
        <213> Homo sapien

        <220>
        <221> misc_feature
        <222> (1)...(419)
        <223> n = A,T,C or G

        <400> 699
ngtccacctg agggcaggtg acaaggacct gacagagccc atgcagggct ttagatttgg       60
acacacaaga gttgataact tcctcatgaa ctccttgcct gatctaaact catattatgg      120
gttctgactg tttgagtaat catcttcaag gttaaacctc ttggcagtta cccttttcac      180
aaagtgcaca gtgggaatcg agaatcgata gggttaattt tggagcagtg gcttatacca      240
ttcacctctg tttttttgtg attatttcac agataatgag accttaataa caaataggcg      300
taaaaaaatt ttcacattga aatgatagaa acatttgatg taataaaact tggttggctt      360
gatattttaa ggaattgaaa cctagcaatc ttattggaga gacaagaatt ggtctccag       419

        <210> 700
        <211> 336
        <212> DNA
        <213> Homo sapien

        <400> 700
ccacttattg tccttaaaaa tccatactga tacatggaca gtaagtgtgt tttcagatgg       60
agtaccagca ccgaaaatgg gttgagggag gatgggttgt atgtatgttt ctgcccacta      120
attttgagca gccatattat gaattaaatc gtcacagcca agtaataacc caagaatggt      180
atgagtttca tgtgtaatag ctcaaatgga ataagcatga atgctggagt ggaccattat      240
cctcaaatat tctatgtcac ttctcattta aagactcttg ttatgaacta ttagaaactt      300
taggcaaaat caaaagtatt tgcggcaaaa taaagg                                336

        <210> 701
        <211> 418
        <212> DNA
        <213> Homo sapien

        <400> 701
ccatgtgatg atgttgacaa cccctgaaga gcctcagtcc attgttccac gtttaagaac       60
taggaatacc aggactgatg caattctact gggtcactat cgcttgtcac aagacacaga      120
caatcagacc aaagtatttg ctgtaataac taagaaaaaa gaagaaaaac cacttgacta      180
taaatacaga tattttcgtc gtgtccctgt acaagaagca gatcagagtt ttcatgtggg      240
gctacagcta tgttccagtg gtcaccagag gttcaacaaa ctcatctgga tacatcattc      300
ttgtcacatt acttacaaat caactggtga gactgcagtc agtgcttttg agattgacaa      360
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gatgtacacc cccttgttct tcgccagagt aaggagctac acagctttct cagaaagg 418

<210> 702
<211> 261
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 702
gggcctgttg tgggggtggg ggaagcaggg aggggaacag ctaaataggt tgctgttgat 60
ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgngggtgg ttgtgttgat 120
tcaaattatg tgtttttgg agagtcatgt cagtggtaga aatataattg ttgggacnat 180
tagntttagc attggagtag gtttaggtta tgtacgtagt ctaggccata tgtgttggan 240
attgagacta gtagggctag g 261

<210> 703
<211> 261
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 703
gggcctgttg tgggggtggg ggaagcaggg aggggaacan ctaaataggt tgctgttgat 60
ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgngggtgg ttgtgttgat 120
tcaaattatg tgtttttgg agagtcatgt cagtggtagt aatataattg ttgggacnat 180
tagntttagc attggagtag gtttaggtta tgtacgtagn ctaggccata tgtgttggag 240
attganacta gtagggctag g 261

<210> 704
<211> 381
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(381)
<223> n = A,T,C or G

<400> 704
ngtntgaatt ctattaaaga tacaaagagg agctggtacc atttcttctg aaactattac 60
aaacaactga aaaggtggaa tttctcccta attcatttta ggaggccagc attatactga 120
taccaaaacc tggcagaggt acaataataa aaggaaactt caagtcagta tcactgatga 180
acaccaatgt gaaaatcctc aataaaatac tggcaaactg aattcagcag cacatcaaaa 240

```
agctaatcca ccacaatcaa gtcagcttca tccctgcgat gcaagtctgg ttcaacatat     300
gcaaatcaat aaatacaatt catcagataa acagagctaa agacaaaatt cacatgattt     360
tctcaataga tgcagaaaag g                                               381

      <210> 705
      <211> 477
      <212> DNA
      <213> Homo sapien

      <400> 705
ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac      60
ctttgcacgg ttagggtacc gcggccgtta aacatgtgtc actgggcagg cggtgcctct     120
aatactggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga tttgccgagt     180
tcctttttact tttttaacc tttccttatg agcatgcctg tgttgggttg acagtgaggg     240
taataatgac ttgttggtga ttgtagatat tggctgttta attgtcagtt cagtgtttta     300
atctgacgca ggcttatgcg gaggagaatg ttttcatgtt acttatacta acattagttc     360
ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat     420
tttttaggta gtgggtgttg agcttgaacg ctttcttaat tggtggctgc ttttagg        477

      <210> 706
      <211> 266
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(266)
      <223> n = A,T,C or G

      <400> 706
ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga      60
ggaggttagt tgtggcaata aaaatgatta aggatactan tataagagat caggntcgtc     120
ctttagtgtt gtgtatggct atcatttgtt ttgaggntag tttgattagt cattgttggg     180
tggtaattag tcggttgttg atgagatatt tggaggtggg gatcaataga gggggaaata     240
gaatgatcag tactgcggcg ggtagg                                          266

      <210> 707
      <211> 358
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(358)
      <223> n = A,T,C or G

      <400> 707
ccatcagaga aatgcaaatc aaaaccacaa tgagatacca tctcacacca gttagaatgg      60
caatcattaa aaagtcagga aacaacaggt gctggagagg atgtggagaa ataggaacac     120
ttttacaccg ntggtgggac tgtaaactag ttcaaccatt gtggaagtca gtgtggcgat     180
tcctcaagga tctagaacta gaaataccat ttgacccagc cggccaatat tcaacattct     240
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taaaggaaag aattttcaac ccagaatttc atatccagcc aaactaagct tcgttagtga     300
aggagaaata aaatacttta cagacaagca aatactgaga gattttgtca ccaccagg       358

      <210> 708
      <211> 491
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(491)
      <223> n = A,T,C or G

      <400> 708
cctactatgg gngttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga      60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca     120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt     240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag      300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct     360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt     420
ctatcgccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaagggng     480
gagtgggttt g                                                          491

      <210> 709
      <211> 460
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(460)
      <223> n = A,T,C or G

      <400> 709
nggttttttt tgtagagcaa ataatttatg caaaatatgt tacaaaatct gggatgctaa      60
atagttgaca caagtactgt gtttgacatt tagtttcatt tgaattagta atagaatttg     120
ctccttccaa catttacatc ttttttcttt ctgactttat atattttcaa taaaaatttg     180
ctccacagtt tttaagntca ttcttcttga atccgntttt acatttgctg ngacaaacct     240
gcataaaact agattttata gatataactt ctttggaaga gataaaaatt caaaagtttg     300
acattgcttt canttattct tttcttcatt gttttgattg gcccctgtta gattgatgta     360
ttgccaatct acttttgatg gcatgaatnt aaaatgacaa cataaaaagc ncttctagtg     420
caacagtaat tgaaacttgc agttttccat taaaaaaaaa                           460

      <210> 710
      <211> 542
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(542)
      <223> n = A,T,C or G

      <400> 710
ctgttacagt gacaagagat aaaaagatag acctgcagaa aaaacaaact caaagaaatg      60
tgttcagatg taatgtaatt ggagtgaaaa actgtgggaa aagtggagtt cttcaggctc     120
ttcttggaag aaacttaatg aggcagaaga aaattcgtga agatcataga tcctactatg     180
cgattaacac tgtttatgta tatggacaag agaaatactt gttgttgcat gatatctcag     240
aatcggaatt tctaactgaa gctgaaatca tttgngatgt tgtatgcctg gtatataatg     300
tcagcaatcc caaatccttt gaatactgtg ccaggatttt taagcaacac tttatggaca     360
gcagaatacc ttgcttaatc gtagctgcaa agtcagacct gcatgaagtt aaacaagaat     420
acagtatttc acctactgat ttctgcagga aacacaaaat gcctccacca caagccttca     480
cttgcaatac tgctgatgcc cccagtnagg atatctttgt taaattgaca acaatggacc     540
tg                                                                   542

      <210> 711
      <211> 394
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(394)
      <223> n = A,T,C or G

      <400> 711
caaacccact ccaccttact accagacaac cttagccaaa ccatttaccc aaataaagta      60
taggcgatag aaattgaaac ctggcgcaat agatatagta ccgcaaggga aagatgaaaa     120
attataacca agcataatat agcaaggact aacccctata ccttctgcat aatgaattaa     180
ctanaaataa ctttgcaagg agagccaaag ctaagacccc cgaaaccaga cgagctacct     240
aagaacagct aaaagagcac acccgtctat gtagcaaaat agtgggaaga tttataggna     300
gaggcgacaa acctaccgag cctggtgata gctggttgtc caagatagaa tcttagttca     360
actttaaatt tgcccacaga accctctaaa tccc                                394

      <210> 712
      <211> 552
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(552)
      <223> n = A,T,C or G

      <400> 712
gaggtctgta naatgccagg ctcaaatttg tctttataat ttaataccag aaatctttcc      60
cttgtgatgt ttctttcttt ctggattgcc tctatagcag gggatagcgg gggaggataa     120
ggcacatctt tgntgtactg agaaatttga ccacgcagga tgatgtggct gttctcattc     180
atctgcacag agaaaaataa tgataaaata tccctttcct atgtttactg attttatggc     240
tgccataatg gaagcctcct tgactattta atcctttctg tcaactaggt tcgatttttt     300
ttttaattta cctgttagag gtatttaana attttaacta gctanaaata attacattcc     360
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```
aaaggaacac caaggcaaat aaatggttgg taatcagcaa aagaattaca ttagttgttg      420
ntgctactta ttagggggag aactgttttt ttttaaattt aaacaattta ataatctcaa      480
ctgcaaataa ttttagatgc agcaaaggac tatgtagncg ttaatacctc atgttgatat      540
tttcataata tt                                                          552

      <210> 713
      <211> 518
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(518)
      <223> n = A,T,C or G

      <400> 713
ccaaaaactg gaagcagctc actaaacaaa cagtggcata cccatagaac tgcatacttc       60
tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa      120
atgccacatg aanaaaccca aaggggaaaa acataaaaac tttatatgtc agtcatataa      180
aattctanaa aatgcaaact aatccatcnt aaaggaaagt aaatcaacag ttgtctggag      240
gaccananag agcaggagga ganagattat taaaggggtt aaagtaaatt tgggagtgcc      300
cttccntttt taaatnctat gaaaatgaaa gtaaaggcnc atgcatgttg taaactaata      360
gtaacaaaca naatgggttg gagtggggtg ttgtctgggg acatcattac aaaatgtaag      420
ccagtttatn taaattttga aaagaccgtg gactctgatc tgactgatna atgttggaag      480
agataagtgt gctgcaaatg ggggaattaa taaaacag                              518

      <210> 714
      <211> 281
      <212> DNA
      <213> Homo sapien

      <400> 714
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt       60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct      120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg      180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaaggtg      240
ataagctctt ctatgatagg ggaagtagcg tcttgtagac c                          281

      <210> 715
      <211> 443
      <212> DNA
      <213> Homo sapien

      <400> 715
cttgaaatca gcaacacact tacaaatgag aaaatgaaaa tagaagagta tataaagaaa       60
gggaaagagg attatgaaga gagtcatcag agagctgtgg ctgcagaggt atccgtactt      120
gaaaactgga aggagagtga agtgtataag ctacagatca tggagtcaca agcagaagcc      180
tttctgaaga agctggggct gattagccgt gatcctgcag catatcccga catggagtct      240
gatatacgtt catgggaatt gtttctttct aatgttacaa aagaaattga gaaagcaaag      300
tctcagtttg aagaacaaat taaggcaatt aaaaatggtt cccggctcag tgaactttct      360
aaagtgcaga tttctgagct ttcatttcct gcctgtaaca cggttcatcc cgagttactc      420
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cctgagtctt caggccacga tgg 443

<210> 716
<211> 639
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(639)
<223> n = A,T,C or G

<400> 716
ccaaanaaaa tgaagtacag agtctgcata gtaagcttac agataccttg gtatcaaaac 60
aacagttgga gcaaagacta atgcagttaa tggaatcaga gcagaaaagg gtgaacaaag 120
aagagtctct acaaatgcag gttcaggata ttttggagca gaatgaggct ttgaaagctc 180
aaattcagca gttccattcc cagatagcag cccagacctc cgcttcagtt ctagcagaag 240
aattacataa agtgattgca gaaaaggata agcagataaa acagactgaa gattctttag 300
caagtgaacg tgatcgttta acaagtaaag aagaggaact taaggatata cagaatatga 360
atttcttatt aaaagctgaa gtgcagaaat tacaggccct ggcaaatgag caggctgctg 420
ctgcacatga attggagaag atgcaacaaa gtgtttatgt taaagatgat aaaataagat 480
tgctggaaga gcaactacaa catgaaattt caaacnaaat ggaagaattt angattctaa 540
atgaccaaaa canagcatta aaatcagaag ttcagaagct gcagactctt gtttctgcac 600
angcctaata aggatgntgn ggaacaaatg gaaaaattg 639

<210> 717
<211> 473
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(473)
<223> n = A,T,C or G

<400> 717
nntgaggcta ctgctgtttt attacaacat tacctcttgt ttttataaag tgtaccaaga 60
tttaaattga taactttatt ttacttgaaa aaaaaaagtt tnttttatca ccagtgttac 120
agttgtcttc tgtttctttt tgttttgntt tatttgnttt ccttttttagc caaagagtga 180
acagaanatt ttcttatttt ggtggctatt cattttactt ttaaaagtga ttggtggatt 240
ttagactaat tatgggggaa tttgccacca aaataaaaaa tatgtaaagn gtagtgatta 300
cagagtggtt aaaatgtggg ttagtactta tttattccat taattgatta tttgactgtt 360
tataaagaaa gttgctttat ttctttaaac atcttcaaaa gatgatcctt tcttgtcaca 420
ttatagccaa aagaagcaga gaacttcact gtctgcattt ggttcctggt tgg 473

<210> 718
<211> 207
<212> DNA
<213> Homo sapien

<400> 718

ggtaaatgct agtataatat ttaccatctc acttctagga atactagtat atcgctcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
ctttgccgcc tgcgaagcag cggtagg 207

<210> 719
<211> 255
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

<400> 719
cctatattac ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct 60
tgcaactata gcaacagcct tcataggcta tgtcctcccg tgaggccaaa tatcattctg 120
aggggccaca gtaattacaa acttactatc cgccatccca tacattggga cagacctagt 180
tcaatgaatc tgaggaggct actcagtaga cagncccacc ctcacacgat tctttacctt 240
tcacttcatc ttgcc 255

<210> 720
<211> 455
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(455)
<223> n = A,T,C or G

<400> 720
ccaatgtcga aacctacaag atttccttaa aatctctaat agaggcatta cttgctttca 60
attgacaaat gatgccctct gactagtaga tttctatgat cctttttgt catttatga 120
atatcattga ttttataatt ggtgctattt gaanaaaaaa atgtacattt attcatagat 180
agataagtat caggtctgac cccagtggaa aacaaagcca aacaaaactg aaccacaaaa 240
aaaaaggctg gtgttcacca aaaccaaact tgttcattta gataatttga aaaagctcca 300
tagaaaaggc gtgcagtact aagggaacaa tccatgtgat taatgnttnc attatgttca 360
tgtaanaagc cccttatttt tagccataat tttgcatact gaaaatccaa taatcagaaa 420
agtaattttg ccacattatt tatnaaaaat gttcc 455

<210> 721
<211> 530
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(530)
<223> n = A,T,C or G

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      <400> 721
ccagtgcttg ctgccgtggt ttagtgattg ggtgttagaa ataaaaactc aggtctattt      60
cttaccagtc agtaacaatt tttagagaat gtacttggta tataatatat ggacttcagg     120
aactttattg gggngggggg ttaattttgc cttaccctgt tcactttcag atgattaggc     180
ttttgcactt tagaatgaga aacttgtgac gttagtgtgt tcttactagc tttaatttgt     240
atgtagcaat gaattgtgaa tcttagtgca gtgggttttt ttaaaaaact caaaaagctg     300
ggaattaagt ggtttcagta ataatgctat accgaggtgc ttgcattgta tttcataatt     360
ttgttacaaa ccaaaattat ttttaatgan aacggtcttg ggttcagagg tgtgatgcca     420
gaatgtattt tcgtactgtt aggcccttgg aacagatacc ggtgctttct tgaaagatga     480
aagaaatgca atgggtgctc ttcatgcaag gttgcaaacc taccaagaat                530

      <210> 722
      <211> 242
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(242)
      <223> n = A,T,C or G

      <400> 722
ccaagggtca tgatggcagg agtaatcana ggtgntcttg tgttgtgata agggnggaga      60
ggttaaagga gccacttatt agtaatgttg atagtagaat gatggctagg gtgacttcat     120
atgagattgt ttgggctact gctcgcagtg cgccgatcag ggcgtagttt gagtttgatg     180
ctcatcctga tnagaggatt gagtaaacgg ctaggctaga ggtggctaga ataaatagga     240
gg                                                                    242

      <210> 723
      <211> 472
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(472)
      <223> n = A,T,C or G

      <400> 723
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga      60
gccgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca     120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc nacctataaa tcttcccact attttgctac atagacgggt gtgctctttt     240
agctgttctt aggtagctcg tctggnttcg gggtcttag ctttggctct ccttgcaaag      300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct     360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt     420
ctatcgccta tactttattt gggtaaatgg tttggctaan gttgtctggt ag             472

      <210> 724
      <211> 292
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(292)
      <223> n = A,T,C or G

      <400> 724
nccaccactg cagccctaca tacagntgaa aaaaaattcc attctgttaa catttgtttt      60
ataagttttc acncaataca caaaaaaccc ctctgcactt cttgtaaaga acaaaaaaga     120
tacacaacag ttaagcgtaa agatcacagg caatagcatt caaacatgga tgtgggnaga     180
gaaaggagta cctggcatga gtacctgctt agttngactg aatccttgat ttttaatttg     240
gcttttcatg ggccgntcac aacaccaacg ctgngngagg tatggtagtc ag             292

      <210> 725
      <211> 122
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(122)
      <223> n = A,T,C or G

      <400> 725
atagaaaggg catacccaaa atgttactga aaatntaata caaattccaa gattcaccaa      60
ngaagtaaca aaaacctggc ctgcangngg ncccctatcc cgtggctcca tggntgatgt     120
gg                                                                    122

      <210> 726
      <211> 477
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(477)
      <223> n = A,T,C or G

      <400> 726
ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac      60
ctttgcacgg ttagggtacc gcggccgtta aacatgtgtc actgggcagg cggtgcctct     120
aatactggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga tttgccgagt     180
tccttttact ttttttaacc tttccttatg agcatgcctg tgttgggttg acagtgaggg     240
taataatgac ttgttggtga ttgtanatat tgggctgtta attgtcagtt cagtgtttta     300
atctgacgca ggcttatgcg gaggagaatg ttttcatgtt acttatacta acattagttc     360
ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat     420
tttttaggta gtgggtgttg agcttgaacg ctttcttaat tggcggctgc ttttagg        477

      <210> 727
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<211> 416
<212> DNA
<213> Homo sapien

<400> 727
cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgtttaaa aactagaaca 60
ctgaaaaatt ctaggaaagc ttattttccc ttatattttt atggtacttt caacacttaa 120
taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180
gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240
caacggctgc catagtgatt aaccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300
cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg 416

<210> 728
<211> 416
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(416)
<223> n = A,T,C or G

<400> 728
cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgtttaaa aactagaaca 60
ctgaaaaatt ctaggaaagc ttattttccc ttatattttt atggtacttt caacacttaa 120
taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180
gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240
caacggctgc catagtgatt aaccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300
cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata ntctgg 416

<210> 729
<211> 564
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(564)
<223> n = A,T,C or G

<400> 729
ctgtgagtag aggagtcttc ccgagagtag cagttgttga tccaaatgat tgaagccttc 60
aggtaaggga ataactgctg caggaattct ttcttgaaga atttaagctg tttggtaaga 120
attctgtaac tacatacctt tgaaacacta ttcacattca aataaacgct tgttttctag 180
ccaggcacag gctcaattag tttttcaaac tctagccaag gcagtatttc atttgggaaa 240
tcatgcaaca gaactgctca attcttaact tctcctgctg ttaacattta cacttagact 300
gccagcaaca gttaacttaa attttggtct caagggaaca aaaaaaaatt gcattcagaa 360
tttaatatag tattttaaaa ctaattttag cctgtaagnc attatgagca atagtaactt 420
ttatacctcc tcatcttgnc tgataatata ttctatatgc tgncaatctg attatatagt 480

ctatatgcta gaagttgctg attttcattc tgccaccaaa aaaaactgtc cttttttttt 540
tatgggggaa aaagggaatt taaa 564

<210> 730
<211> 310
<212> DNA
<213> Homo sapien

<400> 730
ccatttttat ttcttcttca gagaagtgtt tatttaggtc tgttgcccat tttacaatta 60
ggccatatgt tttcttgctg ttgagttgta tgtgtgtttg tataaatttt gcatattaac 120
cccttatcac acgtatgttt tttaaaataa attttgctta ttaatctttt atcagatgta 180
tggtttccaa atatattctt ccgatccatg gattctcttt tttgttatga ttgtttcttt 240
gctcttcgga agctttttgt tttgttttgt tatttgtttt actttgatat agtcccattt 300
attgtttttg 310

<210> 731
<211> 467
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 731
ngacaacctt agccaaacca tttacccaaa taaagtatag gcgatagaaa ttgaaacctg 60
gcgcaataga tatagtaccg caagggaaag atgaaaaatt ataaccaagc ataataaagc 120
aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180
gccaaagcta agacccccga aaccagacga gctacctaag aacagctaaa agagcacacc 240
cgtctatgta gcaaaatagn gggaagattt ataggnagag gcgacaaacc taccgagcct 300
ggtgatagct ggttgtccaa gatagaatct tagntcaact ttaaatttgc ccacagaacc 360
ctctaaatcc ccttgtaaat ttaactgnta gnccaaagag gaacagntct ttggacacta 420
ggaaaaaacc ttgtagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 732
<211> 492
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

<400> 732
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagctaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240

```
agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggctct ccttgcaaag     300
ttatttctag ttaattcatt atgcagaagg tatagggggtt agnccttgct atattatgct   360
tggntataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt     420
ctatcgccta tactttattt gggtaaatgg tttggctaag gttgtctggt agtgaggcgg     480
agngggtttg gg                                                         492

       <210> 733
       <211> 562
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(562)
       <223> n = A,T,C or G

       <400> 733
ntgaaatggc aatagcattc actgtcgtat tttgcagtgc tcaggaagtg ggacgttaac      60
tttgaaggtg cttgtttgta ttagctctgc taggtttacc tctacaacgt agatttcagc     120
agctatgctg actgacacta cattctagtt cttaagattt tttttccana tccccccttc     180
cccagctaga catacgtagc atactttcat cttattcagt ctttctgtaa cctgctgctg     240
cttttagtcc tcctcacctc agatcggaat caatggagtg ggcccagagg atacatttta     300
attccagtaa tggtaggtag atttgtcctg ctttctaaaa catctcctca tttcatattt     360
ccactccata ttgattccat aagggaaaat taatgggtgn ttcctccttt agggaggcaa     420
tgcaaagagn gtggacatct tctaatcttg aggaacagtn gttgatttcc cttgaaggag     480
cttacatatt gactgtnttt cacaataacc tgnttgcccc agntcaatcc ctcattttaa     540
tacttaatgt tggtnctggg ct                                              562

       <210> 734
       <211> 265
       <212> DNA
       <213> Homo sapien

       <220>
       <221> misc_feature
       <222> (1)...(265)
       <223> n = A,T,C or G

       <400> 734
nggtccagaa caagagaaat aactgcagaa aacacatatg gttggaaacc atgcgcttgt      60
gactttttct gtagcctatg ggagtggaca gagtgggtaa cccaagatgt ttttaagact     120
gactggacta agaatggcgt acttatagcc aactacttcc cccctaatgt gactgaaggg     180
attcataatg atcacaatta gcattacggt taagtatttt agggttgacg tctaagctca     240
cacttgaaag gtatttatct aatgg                                           265

       <210> 735
       <211> 216
       <212> DNA
       <213> Homo sapien

       <400> 735
```

```
atttaatacg tgctcactgc tcggcacgcg ctgaagctac agttaacaat cagtgagcac      60
atattaaatg ataaaataat gctgatggta aacattcata acagcagagt aagattttgg     120
cagttttgtg tctcggtaac ataactgtaa ccttagatga acacctatcc cttcatgatc     180
tgactttaga ggcaaggagt ttgtaacatc taatgg                               216

      <210> 736
      <211> 285
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(285)
      <223> n = A,T,C or G

      <400> 736
ctgaaaggca acntggagac tagttagtct agtcccctca tattataaat tggtatgctg      60
aggccaggca gtaaattgct atggagctct ccaatttaag gccagtttga ctccaagggt     120
agggcttcta gtaaaatttt gtgattaaat tggaaactct aatttatttt tctatgngtt     180
tttggtacct aatcctcata agcaagccat atttcaaggc tgatcaatga aaacaccaaa     240
taccaaagct tcctttccct tccaaattta ctgacccttt gtcag                     285

      <210> 737
      <211> 509
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(509)
      <223> n = A,T,C or G

      <400> 737
agangaagaa gangaagatt aagggaaaag tacatcggtc aagaagagct caacaaaaca      60
aagcccatct ggaccagaaa tcccgacgat attactaatg aggagtacgg agaattctat     120
aagagcttga ccaatgactg ggaagatcac ttggcagtga agcatttttc agttgaagga     180
cagttggaat tcagagccct tctatttgtc ccacgacgtg ctccttttga tctgtttgaa     240
aacagaaaga aaaagaacaa catcaaattg tatgtacgca gagttttcat catggataac     300
tgngaggagc taatccctga atatctgaac ttcattagag gggtggnaga ctcggaggat     360
ctccctctaa acatatcccg tgagatgttg caacaaagca aaattttgaa agttatcang     420
aagaatttgg gtcaaaaaat gcttanaact ctttactgaa ctggcggaag atnaagagaa     480
ctncaagana ttctatgagc agntctctt                                       509

      <210> 738
      <211> 97
      <212> DNA
      <213> Homo sapien

      <400> 738
cagtgaattg aatacgactc ctatagggcg aattgggccc tctagatgca tgctcgagcg      60
gccgccagtg tgatggatat ctgcagaatt cgccctt                              97
```

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      <210> 739
      <211> 209
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(209)
      <223> n = A,T,C or G

      <400> 739
ccgncagtgt gatggatatc tgcagaattc gcccttagcg gcccgcccgg gcagggtcct      60
tatatatagt agcttagttt gaaaaaatgt gaaggacttt cgtaacggaa gtaattcaag     120
atcaagagta attaccaact taatgttttt gcattggact ttgagttaag attatttttt     180
aaatcctgag gactagcatt aattgacgg                                        209

      <210> 740
      <211> 164
      <212> DNA
      <213> Homo sapien

      <400> 740
ccaagctaat gggtgacact gtgaatgcaa ctctaatgca gcctggcgta aatggtccta      60
tgggcactaa ctttcaagtt aacacaaaca gaggaggtgg tgtgtgggaa tctggtgcag     120
caaactccca gagtacatca tggggaagtg gaaatggcgc aaat                       164

      <210> 741
      <211> 514
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(514)
      <223> n = A,T,C or G

      <400> 741
ccagtcagaa ttgagatgtg ctgtgagtgc aaaatacact caaatctaag acttagtatg      60
gaagaaaaag aagataaggt gnttcattaa taatctttta tattgattac atgttgaaat     120
gatattttta atatactggg ttacataaac tgttattaag attaatttg cttgtttctt     180
ttttaatatg gctactagaa aattaaaaat tatgttgtgg ttcacattat atttctgttg     240
aacaatgtgg acatagataa tctacagtca ttacattagc cttagaattt agcatcatac     300
ttttaagcac tctggggtac taacttgaac tcccagaaac ccataagcac actctgcata     360
taaattattg caaaattcat tcttatctct ctgaaagata tgcattttaa gggtaaaaag     420
aattcacaaa atattgantc cttaacaaat gtcaattagt atatggagag agctaaagga     480
cttcntgtag actggtncat tggggaaaaa caga                                  514

      <210> 742
      <211> 439
      <212> DNA
```

<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

<400> 742
gcaggtccta tgcatagtta ataagggnta taatctactc aacatggaaa atgggagcct 60
atttgcaaac acacgagtaa ttaaagtacc aattctctct tagtttcttt ttttatagtt 120
ggnttatttt gcaattataa atgntaaaca tccctagaga tgaaagttaa aatggctgat 180
cacagatcag tagcaaaata caaattgaca attcaaaatt ataaataaaa ctctgttgag 240
gatgtttaac tttgagcctc caaatttaag agctaagctt ggaagaaaca aatttatagg 300
ttatatttcc ctcttaaatt aaaaaacaaa cttcctctgg cagtagnttg tgaattcctt 360
tcattgnaat gataccatga ttacaggatc aaaaatgctt aacttacttg ccattctgct 420
cacatcatca cagttgttt 439

<210> 743
<211> 275
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 743
cangacgcta cttcccctat catagaagag cttatcacct ttcatgatca cgccctcata 60
gtcattttcc ttatctgctc cctagtcctg tatgcccttt tcctaacact cacaacaaaa 120
ctaactaata ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc 180
gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag 240
gtcaacgatc cctcccttac catcaaatca attgg 275

<210> 744
<211> 295
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 744
ctgtnctttt aaaaaatctg gatgtttttt atttagtgat tgttcgacaa ttagctgctt 60
caaaacataa tgtgcattgc ttatgaatgc cttcatatac taatacagat actctgataa 120
tattacactc taataaggat aatgctgaat tttgaaagga cacaaaacat ctaatgccaa 180
tatatacatg attagccaac atctttgcta tcaagaccac tcgtttttaa ataaagatgc 240
aagtgtcagt tgtagattat tgggatgaag ctaaatcccc agaatgcagc agcag 295

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     <210> 745
     <211> 477
     <212> DNA
     <213> Homo sapien

     <220>
     <221> misc_feature
     <222> (1)...(477)
     <223> n = A,T,C or G

     <400> 745
cgcgttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat      60
tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca     120
cagagagcct atttgtggtt gctcaggtgg ggtcatacat tgcttgcaga aatggcctga     180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg     240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac     300
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca     360
catttctaac aacacttttc tttttctag aggtcactct caaacactga tatatcacta     420
tagtttgagt gtanggattc agtaatcaaa ggttgttatt gcaaaagagc caggcag        477

     <210> 746
     <211> 524
     <212> DNA
     <213> Homo sapien

     <220>
     <221> misc_feature
     <222> (1)...(524)
     <223> n = A,T,C or G

     <400> 746
ctgtgaaatt gggttgggag agccaaaata ctttacaact tcagaccgga gaaaaggcca      60
gaggtgtgaa gttagactct atgatgaaac agagtcgtct tttgcgatga catgttggga     120
taatgaatcc attctacttg cacagagctg gatgccacga gaaacagtaa tatttgcctc     180
agatgtaaga ataaattttg acaaatttcg gaactgcatg acagcaactg taatctcaaa     240
aaccattatt acaactaatc cagatatacc agaagctaac attctgctga attttatacg     300
agaaaataaa gaaacaaatg ttctggatga tgaaattgac agttatttca aagaatccat     360
aaatttaagt acaatagttg atgtctacac agntgaacaa ttaaagggaa aagctttgaa     420
gaatgaagga aaagctgatc cttcctatgg catcctttat gcctacattt ccacactcaa     480
cattgatgat gaaactcaaa agtagttcga aatagatgtt ccag                      524

     <210> 747
     <211> 456
     <212> DNA
     <213> Homo sapien

     <220>
     <221> misc_feature
     <222> (1)...(456)
     <223> n = A,T,C or G
```

```
      <400> 747
cctcagttct tgattgtggt tgacggggcg tcaccatgaa ggagcccatt tagtataaag      60
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcatagg     120
ggagtttccg atgccagagg atgaaagcaa gtgctttctc caccctctcc tcccagagtg     180
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga     240
cacaaaatac tgagaggtaa ctttttatca atcaaaccac ataccccaat ttaacacctt     300
tcagtgctct gaattcaact gacagactaa agggtgtttc ctgtaacagt ctgaaatatt     360
aagtgttttt tttgttttgt ttttaaatct tatttcagaa aacttcctct nggggtagga     420
aagtacacat gaagcagcaa agtaacgaag aaaaac                               456

      <210> 748
      <211> 474
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(474)
      <223> n = A,T,C or G

      <400> 748
ccanaccagg gaaccaaatg cagacagnga agttctctgc ttcttttggc tataatgnga      60
caagaaaggg atcatctttt gaagatgttt aaagaaataa agcaactttc tttataaaca     120
gtcaaataat caattaatgg aataaataag tactaaccca cattttaacc actctgtaat     180
cactacactt tacatatttt ttatttnggn ggcaaantcc cccataatta gtctaaaatc     240
caccaatcac ttttaaaagt aaaatgaata gccaccaaaa taagaaaatc ttctgttcac     300
tctttggcta aaaaggaaaa caaataaaac aaaacaaaaa gaaacagaag acaactgtaa     360
cactggtgat aaaagaaact ttttttttac aagtaaaata aagttatcaa tttaaatctt     420
ggncacttta taaaaacaag aggtaatgtt gtaataaaac agcagtagcc tcag           474

      <210> 749
      <211> 355
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(355)
      <223> n = A,T,C or G

      <400> 749
cctgggtnna gnggctgact gnaacctcca cttcctgttc tcaggcaatc ctcctgcctc      60
agcctcctta gtagctggga ctacaggagt gtgcaaccat gcccaactaa tttttgtatt     120
tttaatagag acagggtttc accatgttga tcaggttggt ctccaactcc tgacctcagg     180
tgatccacct gtcccagcct cccaaagtgc tgggattaca ggcatgagcc accacgcccg     240
gnccaggata aagtaaaaat ttgtaagcac acaaggccct ttgcaacctg gctcctggtt     300
actactttaa ncctcctgcc ctcccaaatg tnctcactgt ttttctanac atacc          355

      <210> 750
      <211> 493
      <212> DNA
```

<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(493)
<223> n = A,T,C or G

<400> 750
ccatgctggt ctcgaactcc tgaactcagg tgatccaccc gcctcagtct cccaatagat 60
tacatatatt attaatgaat tgcttccttt aacaccctat tcattgaatt ttccagtaaa 120
ccacaattac taattactcc tgaaatcaga aaagaggtta aaaagatttt ataacagtat 180
cctatgaaat ctactacttt caagtaatag tagttgaatt accaaaaccc gtcactcaag 240
ccaatgacta caattaagat atgagtaaca tttcctagat aaataaagtc aattaattat 300
atttgcatct gggaaataga gaaagtacat ataagccatg attttgaagn caaaagagag 360
agantatttg ccaaggaggg gtgagttata gtatgtaatt ataacataca gaagcttttt 420
gtatgctggt aactaatttt aatttcctac attnttatgg agatttctgc tattcttgtc 480
ctattttcca cct 493

<210> 751
<211> 364
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(364)
<223> n = A,T,C or G

<400> 751
cgaggtctgg naaggtcacc aagtctgccc aganagctca gaaggctaaa tgaatattat 60
ccctaatacc tgccacccca ctcttaatca gtggtggaag aacggtctca gaactgtttg 120
tttcaattgg ccatttaagt ttagtagtaa aagactggtt aatgataaca atgcatcgta 180
aaaccttcag aaggaaagga gaatgttttg nggaccactt tggttttctt ttttgcgtgt 240
ggcagtttta agttattagt ttttaaaatc agtacttttt aatggaaaca acttgaccaa 300
aaatttgtca cagaattttg agacccatta aaaaagttaa atgagataaa aaaaaaaaan 360
cntg 364

<210> 752
<211> 498
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

<400> 752
ctggattatg ggttggnatt ggtcatatgt tagactccat acaggcatag ctatgatgca 60
gtgaatccct tagaagttac aattctcaaa ttacatactt cctcagatgt aacattagaa 120
ctcaatattt ctaacaataa cataccagaa aaggctggac tggcactcat ctgctgacta 180

acttgtagcc tcagtaatat gacatacttg cctttaacaa attatctcaa attaactaac 240
agaccttcag aaaatggaga ttctttttga tggggacata atcaaattta agtctgagaa 300
atatgcttaa cagttggaac tcaaattaaa tgtactgatt ttaaagttta gacattaaca 360
agtgatanat tagcctcaaa aaaagacaat ttggnaaggn ttaggtcttt taatttggtg 420
cttgntcaca acttgactgg tgcttctttc cttgctgctt cacatcaagc atggggccaa 480
ttctattttc agtaaatg 498

<210> 753
<211> 467
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 753
nacaacctta gccanaacca tttacccaaa taaagggata ggcgatagaa attgaaacct 60
ggcgcaatag atatagnacc gcaagggaaa gatgaaaaat tataaccaag cataatatag 120
caaggactaa cccctatacc ttctgcataa tgaattaact agaaataact ttgcaaggag 180
agccaaagct aagacccccg aaaccagacg agctatctaa gaacagctaa aagagcacac 240
ccgtctatgt agcaaaatag tgggaagatt tataggtaga ggcgacaaac ctaccgagcc 300
tggtgatagc tggntgncca agatagaatc ttagntcaac tttaaatttg cccacagaac 360
cctctaaatc cccttgtaaa tttaactgtt agtccaaaga ggaacagctc ttggacacna 420
ggaaaaaacc ttgcagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 754
<211> 196
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(196)
<223> n = A,T,C or G

<400> 754
gtcatgttca agtgttntaa tctgacgcag gcttatgcgg aggagaatgt tttcatgtta 60
cttatactaa cattagttct tctatagggt gatagattgg tccaattggg tgtgaggagt 120
tcagttatat gtttgggatt ttttaggcag tgggtgttga gcttgaacgc tttcttaatt 180
ggtggctgct tttagg 196

<210> 755
<211> 381
<212> DNA
<213> Homo sapien

<400> 755
ctggaaagga ttctgtacat ataagacatc aaatattgag ggatactgga acttttaaat 60
taatgggcaa agaaagtcaa caaaggaagt tcatatgaaa tcaaactagt aatatgatta 120

```
caaaaaaaaa gtttaaaatt tttcttggcc ccagtcttat catttctgag ccaaatacaa     180
ttctatcgaa atcacctgaa actgaaatca ccattctagg ctggttttcc cataaagatg     240
gactgctcca aaaagaggaa tcaagaaaga atttggctca cagtgaatta ttcactttgt     300
cttagttaac taaaaataaa atctgactgt taactacaga aatcatttca aattctgtgg     360
tgataataaa gtaatgaccg c                                               381

      <210> 756
      <211> 341
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(341)
      <223> n = A,T,C or G

      <400> 756
ggntataaac ctattattta ttgcagaact aataaaaaat ccaaagcctt gtatttgtac      60
atctttatta tctctaaagc actttcctca acctaatttc agtttttaca attggtactc     120
aagaaaatag agacagaaat catttgattt tgcccagaaa ccatctgctt atatttataa     180
ggccacctaa tttgaaatca catatagacc aggcgcggtg gctcacgcct gtaattccaa     240
cactttggaa ggccaaggca ggtggatcac aaggtcaaga gattgagacc atcttggcca     300
acatggcgaa accccgtctc taccaaaaat acaaaaatca g                         341

      <210> 757
      <211> 479
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(479)
      <223> n = A,T,C or G

      <400> 757
cgcnttactg tacatattgc tagcagggag acaactggaa atactaaaca aatactggaa      60
ttcacattac agacagacga aaccaacatg gatgccacac ataacttcct ttgtagtttc     120
acagagagcc tatttgtggt tgctcaggtg gggtcataca ttgcttgcag aaatggcctg     180
atcatagctc tatgaaacaa tgaattcgga atgaaatctt accatgacac ctctctgtag     240
gaaagaaatg ttgcttcacg tgtgctaagt tgagataata atatttcaca tatttatata     300
cagagaatca ctctcaaatt taacccaaga taagcaatag gatttggggg tgacttgtnc     360
acatttctaa caacactttt cttttttcta gaggtcactc tcaaacactg atatatcact     420
atagnttgag ngtagggatt caagtaatca aaggttgtta ttgcaaaaga gccaggcag      479

      <210> 758
      <211> 267
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(267)
      <223> n = A,T,C or G

      <400> 758
ccatgnctag gtttatagat agttgggtgg gttggtgtaa atgagtgagg caggagtccg     60
aggaggttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcaggttcgt    120
cctttagtgt tgtgtatggc tatcatttgt tttgaggtta gtttgactag tcattgttgg    180
gtggtaatta gtcggttgtt gatgagatat ttggaggtgg ggatcaatag aggggaaat     240
agaatgatca gtactgcggc gggtagg                                       267

      <210> 759
      <211> 449
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(449)
      <223> n = A,T,C or G

      <400> 759
cgaggtcttg aaatcagcaa cacacttaca aatgagaaaa tgaaaataga agagtatata     60
aagaaaggga aagaggatta tgaagagagt catcagagag ctgtggctgc agaggtatcc    120
gtacttgaaa actggaagga gagtgaagtg tataagctac agatcatgga gtcacaagca    180
gaagcctttc tgaagaagct ggggctgatt agccgtgatc ctgcagcata tcccgacatg    240
gagtctgata tacgttcatg ggaattgttt ctttctaatg ttacaaaaga aattgagaaa    300
gcaaagtctc agtttgaaga acaaattaag gcaattaaaa atggttcccg gctcagtgaa    360
ctttctaaag ngcagatttc tgagctttca tttcctgcct gtaacacggt tcatcccgag    420
ttactccctg agtcttcagg ccacgatgg                                     449

      <210> 760
      <211> 414
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(414)
      <223> n = A,T,C or G

      <400> 760
ccatnaactg gaagcagctc actaaacaaa cagnggcata cccatagaac tgcatacttc     60
tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa    120
atgccacatg aagaanccca aggggagaa acataaaaac tttatatgnc agncatataa     180
aattctagaa aatgcaaact aatccatcnt aaaggaaagt aaatcancag ttgtctggag    240
gaccanagag agcaggagga gagagattnt taangggtt aaagtaatt ngggagtgcc      300
cttccatttt taaatnctat gaaaatgaaa gtaaaggccc ntgcatgttg taaactaata    360
gtaacaaaca gattgggttg gagtggggtg ttgtctgggg acatcattac aaan          414

      <210> 761
      <211> 428
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<212> DNA
<213> Homo sapien

<400> 761
gagcctcact aaaataacag atttcagtat agccaagttc atcagaaaga ctcaaatgga 60
atgatttaca agatagaaca ctttaaacca ggtcagtcct atctttttgt agctgaaggc 120
tatcagtcat aacacaattt cgcgtacacc tctgctcatt atggaattac acttaaaacg 180
aatctcaaga gggtgaccat tgttgtttca gataccatcc ctaaggagag tggttaacag 240
gaagattgcc agtgttactg atggaaagaa gtgtttgttt gtttttttc ttgtcaaaga 300
cttacaccat agttttaaat taaactgtca ggcattttct cagacaggtt ttccttttca 360
atgcagtaat gaagaactaa gataaaaatc atgacttttg actgccactc aacattatta 420
catgcacc 428

<210> 762
<211> 574
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(574)
<223> n = A,T,C or G

<400> 762
caggtctgaa ctgataagta ttaagagacg tttgttgcta gttaagngtt ccagttgaga 60
gttcgaagtg aaaacctggg ctctttacca gtgttgagtg agaagattta tttctctttc 120
ctctgaattt accacatgta acatcacaga gacatgtaga gttcctttag gatttgcgat 180
ttgaaccagn ccagtctgat tttcaggtga attctgtgaa gagcttgatg ggggaagtct 240
gaagacagaa ggaattaggg aaaagggtga tacttacaga gtaaaggaaa taaatgaaaa 300
gataatggta tttttggtag ccacagggaa atagcaggag gggactggag atcacacaca 360
cgcacacgca cacacacaaa cacacacaca cgctaaaact caaactaaaa acctcccaaa 420
ggagctgctt tgtttgcaga cttcaattng aagtagatac taagggcaag aatagaccag 480
ttaaaattca cctgaaaatc tcttcccann cttcaaatgt gctaaaatat cactgtcagc 540
ttagcatctc tncatgtatg tatatataga tgta 574

<210> 763
<211> 465
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 763
cctactatgg gtgttaaaat tttttactct ctctacaagg ntttttccta gtgtccaaag 60
agctgttcct ctttggacta acagttaaat ttacaagggg atttagaggg ttctgngggc 120
aaatttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180
tttgtcgcct ctacctataa atcttcccac tattttgcta catagacggg tgtgctcttt 240
tagctgttct taggtagctc gtctggtttc gggggtctta gctttggctc tccttgcaaa 300

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gttatttcta gttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc     360
ttggatataa tttttcatct ttcccttgcg gtactatatc tattgcgcca ngtttcaatt     420
tctatcgcct atactttatt tgggtaaatg gtttggctaa ggttg                     465

      <210> 764
      <211> 151
      <212> DNA
      <213> Homo sapien

      <400> 764
ctgtcaatta atgctagtcc tcaggattta aaaaataatc ttaactcaaa gtccaatgca      60
aaaacattaa gttggtaatt actcttgatc ttgaattact tccgttacga aagtccttca     120
catttttcaa actaagctac tatatttaag g                                    151

      <210> 765
      <211> 251
      <212> DNA
      <213> Homo sapien

      <400> 765
gaagagctta tcacctttca tgatcacgcc ctcatagtca ttttccttat ctgcttccta      60
gtcctgtatg cccttttcct aacactcaca acaaaactaa ctaatactaa catctcagac     120
gctcaggaaa tagtaaccgt ctgaactatc ctgcccgcca tcatcctagt cctcatcgcc     180
ctcccatccc tacgcatcct ttacataaca gacgaggtca acgatccctc ccttaccatc     240
aaatcaattg g                                                          251

      <210> 766
      <211> 375
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(375)
      <223> n = A,T,C or G

      <400> 766
cgaggtctgn cctcctggtt cttcatccat tattaacaga agagcatact ggtttcggtc      60
cataaaatct ttgggaaggg acaactgtaa aggaagttca tagtcgtcaa tatgaaggat     120
tttaatttct ggctttccta tcttcttctt caggatagct tccttcagca tagaattgtt     180
ttccaatata aaatattttg ctgggttgtc cgtactatgt aggctgacca ctgggaccct     240
tggaccttca cagaataata agaaatgttg attcatggga ctaaaactgg catcaaaata     300
tgtacattgt tctttcatga aattacatga aatgcattgg cgattcaata atccttcagt     360
agaagcactg tacag                                                      375

      <210> 767
      <211> 485
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(485)
      <223> n = A,T,C or G

      <400> 767
cgaggtctga accctcgtgg agccattcat acaggtccct aattaaggaa caagtgatta      60
tgctaccttn gcacggttag ggtaccgcgg cccgttaaac atgtgtcact gggcaggcgg     120
tgcctctaat actggtgatg ctagaggtga tgtttttggn aaacaggcgg ggtaagattt     180
gccgagttcc ttttactttt tttaaccttt ccttatgagc atgcctgtgt tgggttgaca     240
gtgagggtaa taatgacttg ttggtgattg tagatattgg gctgttaatt gtcagttcag     300
tgttttaatc tgacgcaggc ttatgcggag gagaatgttt tcatgttact tatactaaca     360
ttagttcttc tatagggtga tagatnggtc caattgggtg tgaggagntc acttatatgt     420
ttgggatttt ttaggtaagn gggtgttgag cttgaacgct ttcttaattg gggctgctt      480
ttang                                                                 485

      <210> 768
      <211> 379
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(379)
      <223> n = A,T,C or G

      <400> 768
ctgatattct attaaagata caaagaggag ctggnaccat ttcttctgaa actattacaa      60
acaactgaaa aggtggaatt tctccctaat tcattttagg aggccagcat tatactgata     120
ccaaaacctg gcagaggtac aataataaaa ggaaacttca agtcagtatc actgatgaac     180
accaatgtga aaatcctcaa taaaatactg gcaaactgaa ttcagcagca catcaaaaag     240
ctaatccacc acaatcaagt cagcttcatc cctgcgatgc aagtctggtt caacatatgc     300
aaatcaataa atacaattca tcagataaac agagctaaag acaaaattca catgattttc     360
tcaatagatg cagaaaagg                                                  379

      <210> 769
      <211> 518
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(518)
      <223> n = A,T,C or G

      <400> 769
cgaggtccat atgatgatca gtctatatag tttaaggcgc agatacacaa attttcaaaa      60
atatgggtag aatatagtca atatgaatgg aatagacaat gctttgaaaa tcactggagg     120
gaggctttat tgtttgtgaa aacatgttgt catcactttt tgctttaagc ccttggtggt     180
gaaataactc aaaccattct tccttatgct gaagatcgag aaccccaagt atcacatcta     240
ccatcccact catcaatgtg attggtcagt ctttgctgag gncctgcata gccagtttta     300
aagttagagt tcttgcatat acatatgaaa aggcatgtta cttgtgcttt caaagagctt     360
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tttgcttggt gtaaaaagaa aactcaaatt acagtgtgat gtggaatata atggtggtag     420
tttcatcgag atgatgggaa agaattgata agataaagcn gaaagatgag cagaattttc     480
agattgggtn tggaaagagc acttaagaaa gagggtgg                             518

      <210> 770
      <211> 378
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(378)
      <223> n = A,T,C or G

      <400> 770
tatgggtcct gagtgtggaa tataagataa caagacaatt cccttgcttt caagggaaat      60
cacactttat aaaactttga attcttgaaa tgggtttcag aggttccaag gtcaaattca     120
agaataagag ttaagaagaa aaagactatg agaaaggaag tgntgacccc atttgcattt     180
aaatggcagg aatagtctca atctactcat tggggaaaaa tgtatgttgc atatttttga     240
gatattgcaa cttgctctct ctctttgcca ccccaccctt tgncatgctc tgtttttggg     300
ctgaattggc aagaaaaatg gctggagggc tggaagaagn tggacccttc ttccttcttc     360
cttcttcctt ctttctcc                                                   378

      <210> 771
      <211> 207
      <212> DNA
      <213> Homo sapien

      <400> 771
cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgctcaca      60
cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac     120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt     180
ctttgccgcc tgcgaagcag cggtagg                                         207

      <210> 772
      <211> 384
      <212> DNA
      <213> Homo sapien

      <220>
      <221> misc_feature
      <222> (1)...(384)
      <223> n = A,T,C or G

      <400> 772
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aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt     180
ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt     240
agctgttctt aggtagctcg tctggtttcg gggtcttag ctttggctct ccttgcaaag     300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct     360
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tggttataat ttttcatctt tccc 384

<210> 773
<211> 182
<212> DNA
<213> Homo sapien

<400> 773
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atagaaaccg tctgaactat cctgcccgcc atcatcctag tcctcatcgc cctcccatcc 120
ctacgcatcc tttacataac agacgaggtc aacgatccct cccttaccat caaatcaatt 180
gg 182

<210> 774
<211> 191
<212> DNA
<213> Homo sapien

<400> 774
ccatggctag gtttatagat agttgggtgg ttgggtgtaa atgagtgagg caggagtccg 60
aggaggttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcaggttcgt 120
cctttagtgt tgtgtatggc tatcatttgt tttgaggtta gtttgattag tcattgttgg 180
gtggtaatta g 191

<210> 775
<211> 192
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G

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angaggttag ttgaggcaat aaaaatgatn aaggatacta gtataagaga tcangttcgt 120
cctttacatg ttgngtatgg ctatcatttg ttttgaggct agnttgatta gtcattgttg 180
ggtggtaatt aa 192

<210> 776
<211> 144
<212> DNA
<213> Homo sapien

<400> 776
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ggtctgttct ctcccattac acataggttt gtctcagcat gcaagagttt ttcctttaaa 120
aaaaaaaaaa aaaaaaaaaa aaaa 144

<210> 777

<211> 483
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(483)
<223> n = A,T,C or G

<400> 777
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aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
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ttggatataa tttttcatct ttcccttgcg gtactatatc tattgcgcca ggtttcaatt 420
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gtg 483

<210> 778
<211> 393
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(393)
<223> n = A,T,C or G

<400> 778
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gacagacgac caccatattc actgaggtct aaatttgcag tttccactaa tgacattttg 120
atttcccaac agagatactt ctggtcttac tgcacagtct tttaagagaa atacttccat 180
tatgccacat tgtccttgat ccgtaagtga tgtgttaagg tgcttcaaag gaactctgac 240
ctctgaagta cttgagctac tttagtatgt ccagcctatt gctttttgtt ttagngngtc 300
accataaata tcaggggcat aaaaggctat ctattcttaa ttcaaggata aaacagaaga 360
agcttgtggn ataaaacaat agtcaagatc cag 393

<210> 779
<211> 277
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 779
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ctatttcctg agcgtctgag atgttagtat tagttagttt tgttgtgagt gttaggaaaa 180
gggcatacag gactaggaag cagataagga aaatgactat gagggcgtga tcatgaaagg 240
tgataagctc ttctatgata ggggaagtag cgtcttg 277

<210> 780
<211> 328
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

<400> 780
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attttgccac actgcaacac cttacagatg tggaagatgt gaaatttgtc atcaattatg 180
actaccctaa ctcctcagag gattatattc atcgaattgg aagaactgct cgcagtacca 240
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tctctgtgct tcgggaagct aancaaac 328

<210> 781
<211> 305
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(305)
<223> n = A,T,C or G

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taccaaagtg tgcaacctac agaccctcag gtactgccct gtgacttctc tgtatgacat 180
cacaaggctg ccaagtgcct gtttttctag aactaggagt tggtgaggtt tggctantgc 240
tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcctccaaaa 300
gacag 305

<210> 782
<211> 497
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(497)
<223> n = A,T,C or G

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aacctggatg gttttcaatg gcatggttag tcaaattcat ggttttaaac ttagaagcag     180
ctttcggggg agagggtagg ttggagcatt tattacatat tttactgttt aatgtcttaa     240
ccgtgggcct tttaatttgt aaacactgaa atgattgttg ggctgtggaa aacatttacc     300
tatttacctt ggaagtttta aaagacagtc cactttttag catgtgtgtt gcgtccagcc     360
tgtggtcgtc ttaactaata aatgngattt ttctctcaaa aaaaaaacct ccccgggcgg     420
ccgctcaagg gcnaattccn cacactggcg gccgttacta ggggatccga nctcggtcca     480
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      <210> 783
      <211> 364
      <212> PRT
      <213> Homo sapien

      <400> 783
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Asn Thr Gln Arg Lys Lys Ser Gln Glu Lys Met Arg Glu Val Thr Asp
        35                  40                  45
Ser Pro Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr Ser Ser His
    50                  55                  60
Gly Ala Asn Arg Phe Val Pro Lys Ser Lys Ala Leu Glu Ala Val Lys
65                  70                  75                  80
Leu Ala Ile Glu Ala Gly Phe His His Ile Asp Ser Ala His Val Tyr
                85                  90                  95
Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp
            100                 105                 110
Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
        115                 120                 125
Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Arg Ser Leu
    130                 135                 140
Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Phe Pro
145                 150                 155                 160
Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys Asp Glu Asn Gly
                165                 170                 175
Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr Trp Glu Ala Met
            180                 185                 190
Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn
        195                 200                 205
Phe Asn His Arg Leu Leu Glu Met Ile Leu Asn Lys Pro Gly Leu Lys
    210                 215                 220
Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro Tyr Phe Asn Gln
225                 230                 235                 240
Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile Val Leu Val Ala
                245                 250                 255
Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp Val Asp Pro Asn
            260                 265                 270
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Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala Leu Ala Lys Lys
        275                 280                 285
His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr Gln Leu Gln Arg
    290                 295                 300
Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln Arg Ile Arg Gln
305                 310                 315                 320
Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu Glu Met Lys Ala
                325                 330                 335
Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr Leu Asp Ile Phe
            340                 345                 350
Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
        355                 360
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<210> 784
<211> 6353
<212> DNA
<213> Homo sapien

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gttccgattt agtgctttac ggcacctcga ccccaaaaaa cttgattagg gtgatggttc     240
acgtagtggg ccatcgccct gatagacggt ttttcgccct ttgacgttgg agtccacgtt     300
ctttaatagt ggactcttgt tccaaactgg aacaacactc aaccctatct cggtctattc     360
ttttgattta taagggattt tgccgatttc ggcctattgg ttaaaaaatg agctgattta     420
acaaaaattt aacgcgaatt ttaacaaaat attaacgttt acaatttcag gtggcacttt     480
tcggggaaat gtgcgcggaa cccctatttg tttatttttc taaatacatt caaatatgta     540
tccgctcatg aattaattct tagaaaaact catcgagcat caaatgaaac tgcaatttat     600
tcatatcagg attatcaata ccatattttt gaaaaagccg tttctgtaat gaaggagaaa     660
actcaccgag gcagttccat aggatggcaa gatcctggta tcggtctgcg attccgactc     720
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aatcaccatg agtgacgact gaatccggtg agaatggcaa aagtttatgc atttctttcc     840
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<211> 5502
<212> DNA
<213> Homo sapien

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ctttaatagt ggactcttgt tccaaactgg aacaacactc aaccctatct cggtctattc     360
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<212> PRT
<213> Homo sapiens

<400> 786

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        35                  40                  45
Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile
    50                  55                  60
Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met
65                  70                  75                  80
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<213> Homo sapiens

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        35                  40                  45
Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
    50                  55                  60
Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu
65                  70                  75                  80
Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro
                85                  90                  95
Met Ser Leu Lys Pro Gly Glu Glu Leu Ser Pro Thr Asp Glu Asn Gly
            100                 105                 110
Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met
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             20                  25                  30
 Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
         35                  40                  45
 Trp Lys Thr Met Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
     50                  55                  60
 Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 65                  70                  75                  80
 Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
                 85                  90                  95
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
             100                 105                 110
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
         115                 120                 125
 Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
     130                 135                 140
 Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
 145                 150                 155                 160
 Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
                 165                 170                 175
 Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu Glu
             180                 185                 190
 Glu Glu Glu Glu Glu Glu Asp Glu
         195                 200
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